

Report No.: 18250SC20051401

Test Report

Azlan Logistics Limited Client Name

Redwood 2, Chineham Business Park, Crockford Address Lane, Basingstoke, Hampshire, RG24 8WQ, United Kingdom

Product Name Motorised Flat Panel Floor Stand

Jul. 12, 2022 Date



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Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT IEC 60335-1 Safety of household and similar electrical appliances

Report Number:	18250SC20051401
Date of issue	Jul. 12, 2022
Total number of pages	86 pages
Name of Testing Laboratory preparing the Report:	Shenzhen Anbotek Compliance Laboratory Limited
Applicant's name:	Azlan Logistics Limited
Address:	Redwood 2, Chineham Business Park, Crockford Lane,Basingstoke, Hampshire, RG24 8WQ, United Kingdom
Test specification:	Anboten And tek anbotek Anbot At
Standard:	IEC 60335-1:2010+A1:2013+A2:2016
Test procedure:	Type test
Non-standard test method::	N/A
Test Report Form No:	IEC60335_1X
Test Report Form(s) Originator :	Nemko AS
Master TRF:	Dated 2016-10
General disclaimer:	tek Anborek Anborek Anborek Anborek

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Tested by (name, function, signature):	James Zhang Project Engineer	James 2hang
Approved by (name, function, signature):	Jeff Zhu Project Manager	Jeff Im

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: Motorised Flat Panel Floor Stand
: VISION
: Azlan Logistics Limited
: VFM-F50T, VFM-F50
: AC100-240V, 50/60Hz, 140W

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

Attachment 1: Photo documentation

Anborek Anborek Anborek Anborek
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.518128

Copy of marking plate:

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

Motorised Flat Panel Floor Stand Model: VFM-F50T Rating: AC100-240V, 50/60Hz, 140W Manufacturer: Azlan Logistics Limited Address: Redwood 2, Chineham Business Park, Crockford Lane,Basingstoke, Hampshire, RG24 8WQ, United Kingdom

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Fest item particulars	ho ak hotek Anbote Ann stek
Classification of installation and use	: Portable appliance
Supply Connection	: Type Y
nbo. An antek Anbore An	Anbotek Anbo. tek abotek Anbote
Possible test case verdicts:	ek Anborek Anbor ek aborek Anbor
test case does not apply to the test object	; N potek Anboit Ann botek Ant
test object does meet the requirement	: P (Pass)
test object does not meet the requirement	: F (Fail)
Testing	.: Anbore k hotek Anbore Anbore tek
Date of receipt of test item	 : Jun. 24, 2022
Date (s) of performance of tests	: Jun. 24, 2022 to Jul. 04, 2022
General remarks:	so, at thotek Anbote, And stek
(See Enclosure #)" refers to additional information (See appended table)" refers to a table appended to	
Throughout this report a 🗌 comma / 🔀 point is	s used as the decimal separator.

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IEC	60335-1	
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Clause	Requirement + Test	Result - Remark	Verdict
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5	GENERAL CONDITIONS FOR THE TESTS		
Anbotek	Tests performed according to clause 5, e.g. nature of supply, sequence of testing, etc.	A.C.	Anbon P
6	CLASSIFICATION		
6.1 Ant	Protection against electric shock: Class 0, 0I, I, II, III	Class I	P ^{rev} P ^{rev}
nbotek ok	For a class III construction with a detachable power supply part the appliance is classified according to the detachable power supply part	Anbotek Anbotek Ar	pote ^k N Anbotek
5.2 ¹⁰⁰¹⁰	Protection against harmful ingress of water	IPX0	Not
•	MARKING AND INSTRUCTIONS		
.1 Anb	Rated voltage or voltage range (V)	100-240V	N P
ek p	Symbol for nature of supply, or	~ hotek Anboten Anbo	, P
otek	Rated frequency (Hz)	50/60Hz	P.
Here	Rated power input (W), or	140W	Anboi P
Pupo.	Rated current (A)	Anbo tek pobotek	N
Anbor	Manufacturer's or responsible vendor's name, trademark or identification mark	Azlan Logistics Limited	Rol
3 ¹ /-	Model or type reference:	VFM-F50T	Р
19. No.	Symbol IEC 60417-5172, for class II appliances	Anboi tek abotek Ant	N
or of	IP number, other than IPX0	IPX0	nboten
Anborek	Symbol IEC 60417-5180, for class III appliances, unless	Anbotek Anbotek	P.O.N.
1001	the appliance is operated by batteries only, or	tek abotek Anbota	N
lk bro	for appliances powered by rechargeable batteries recharged in the appliance	unbotek Anbotek Anbote	ote ^K N
otek	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth	Anbotek Anbotek A	N ^{otodi}
Anbotek Anbotek Anbot	Symbol IEC 60417-5036, for the enclosure of electrically-operated water valves in external hose- sets for connection of an appliance to the water mains, if the working voltage exceeds extra-low voltage	Anbotek Anbotek Otek Anbotek Anbotek Anbotek Anbotek	An ^b N Anbr
.2	Warning for stationary appliances for multiple supply	Anbotek Anbotek Anb	N potek
nbotek	Warning placed in vicinity of terminal cover	anbotek Anbo, A	N
.3 Anbotek	Range of rated values marked with the lower and upper limits separated by a hyphen	Anbotek Anboi	An P Anbo
Anbor	Different rated values marked with the values separated by an oblique stroke	otek Anber Anbotek	NpS

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IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
Pri.	tek poter And to botek	Anboi Ali dek mbo	ter
7.4 P	Appliances adjustable for different rated voltages or rated frequencies, the voltage or the frequency setting is clearly discernible	Anbotek Anborek A	ibote ^k N
Anbotek Anbotek	Requirement met if frequent changes are not required and the rated voltage or rated frequency to which the appliance is to be adjusted is determined from a wiring diagram	Anbotek Anbotek Mek Anbotek Anbotek	Anbo Anbote Anb
7.5	Appliances with more than one rated voltage or one or more rated voltage ranges, marked with rated input or rated current for each rated voltage or range, unless	Anbotek Anbotek Anbotek Anbo	ootek Nationalisek
Anbotek	the power input or current are related to the arithmetic mean value of the rated voltage range	Anbotek Anbotek	AnBote
K Anbo	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear	botek Anbotek Anbotek	N ^{anb}
7.6	Correct symbols used	Anbo lek sbotek Ant	P
nbotek	Symbol for nature of supply placed next to rated voltage	Anbotek Anbotek	anbole P
Anbotek	Symbol for class II appliances placed unlikely to be confused with other marking	ek Anbotek Anbotek	Anbo Anbo
tek ant	Units of physical quantities and their symbols according to international standardized system	potek Anbore All	PN
7.7ek	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless	Anbotek Anbotek Anti-	nboten otek
An wotek	correct mode of connection is obvious	k hotek Anboten	N
7.8 Anbote	Except for type Z attachment, terminals for connection indicated as follows:	on to the supply mains	<u>anbo</u>
iek Anb	- marking of terminals exclusively for the neutral conductor (letter N)	Anbotek Anbotek Anb	_{ke} k N
hon F	- marking of protective earthing terminals (symbol IEC 60417-5019)	Anboitek Anboitek A	nbote ^R P
Anbotek	- marking of functional earthing terminals (symbol IEC 60417-5018)	k Anbotek Anbotek	Anbot
Aupore	- marking not placed on removable parts	otek Anbor Ar hotek	Ppn
7.9 M ¹⁰¹	Marking or placing of switches which may cause a hazard	Anbotek Anbotek Anbo	e [⊁] P
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means	Anborek Anborek Ar	Anbotek
Anbotek	This applies also to switches which are part of a control	tek Anbotek Anbotek	PN

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Clause	Requirement + Test	Result - Remark	Verdict
- All and a second seco	Antonia Antonia Antonia	and an	oter
potek p	If figures are used, the off position indicated by the figure 0	Anbotek Anbotek	upote ^P
Anborek	The figure 0 indicates only OFF position, unless no confusion with the OFF position	o Anborek Anborek	An ^b N
7.11 mootel	Indication for direction of adjustment of controls	stek subotek Anbo	N
7.12	Instructions for safe use provided	ntek unbotek Anbo	P
potek A	Details concerning precautions during user maintenance	Anbotek Anbotek Anb	P
Anbotek	The instructions state that:	Anborek Anbor ek	Hatoda
Anbotek 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	Hel Anborek Anborek Anborek	Anbore Antone
otek Ar	- children being supervised not to play with the appliance	Anbotek Anbotek A	hotek P
Anbotek Anbotek	For a part of class III construction supplied from a detachable power supply unit, the instructions stat that the appliance is only to be used with the unit provided	ie Anborek Anborek	Anbote Anbote
Anbot	Instructions for class III appliances state that it mu only be supplied at SELV, unless	st potek Anbole Ane	er N
nbotek	it is a battery-operated appliance, the battery being charged outside the appliance	g hindrak hindrak hi	boten N
	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated	Pr Anborek Anbore	Anbotek
Anbu. Anbote	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only	Anbotek Anbotek Anbotek Anbotek	N ^{IDC}
7.12.1	Sufficient details for installation supplied	And hotek Anbotek Ant	P
Anbotek	For an appliance intended to be permanently connected to the water mains and not connected to a hose-set, this is stated	by Anbotek Anbotek	Anborek
ek Anbote	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance	at otek Anborek Anborek Anbore	N
7.12.2	Stationary appliances not fitted with means for disconnection from the supply mains having a contact separation in all poles that provide full disconnection under overvoltage category III, the instructions state that means for disconnection must be incorporated in the fixed wiring in accordance with the wiring rules	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek

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pabo.	IEC 60335-1	Noteh prilos pri	
lause	Requirement + Test	Result - Remark	Verdic
7.12.3	Insulation of the fixed wiring in contact with parts exceeding 50 K during clause 11; instructions state	Anbotek Anbotek Anb	ibote ^N N
nbo'	that the fixed wiring must be protected	Anbo, Ai apotek	Anbote.
7.12.4	Instructions for built-in appliances:	ek Anbo. A. Abotek	Aupo
Anbore	- dimensions of space	ontek Anbois Alin hotek	N
r pupo	- dimensions and position of supporting and fixing	abotek Anbote An	N N
stek pr	- minimum distances between parts and surrounding structure	Anbotek Anbotek Anbo	botek N
nbotek	- minimum dimensions of ventilating openings and arrangement	Anbotek Anbotek	AnboNK
Anbotek	 connection to supply mains and interconnection of separate components 	ctek Anbotek Anbotek	N
tek Anbot	- allow disconnection of the appliance after installation, by accessible plug or a switch in the fixed wiring, unless	Anbotek Anbotek Anbotek Anbot	ek N
botek	a switch complying with 24.3	abotek Anbota An	N
7.12.5	Replacement cord instructions, type X attachment with a specially prepared cord	K Anbotek Anbotek	Anborr
Anboro	Replacement cord instructions, type Y attachment	olek Anbote And hotek	Bot
Anboir	Replacement cord instructions, type Z attachment	potek Anborer Anu	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	Anbotek Anbotek Anbotek Anbotek Anbotek	otek N
7.12.7	Instructions for fixed appliances stating how the appliance is to be fixed	Anbotek Anbotek	AnN do
.12.8 · · · · · · · · · · · · · · · · · · ·	Instructions for appliances connected to the water n	nains:	N
on M	- max. inlet water pressure (Pa):	otek unbotek Anbou	N
Next.	- min. inlet water pressure, if necessary (Pa):	And stek anbotek And	N
Anbotek	Instructions concerning new and old hose-sets for appliances connected to the water mains by detachable hose-sets	Anbotek Anbotek A	Anbotel
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	botek Anbotek Anbotek Anbotek	N
otek A	These instructions may be supplied with the appliance separately from any functional use booklet	Anbotek Anbotek Anb	botek
Anbotek	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches	Anbotek Anbotek	Anbo
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	obtek Anbotek Anbotek	N

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Clause	Requirement + Test	Result - Remark	Verdict
se bup	ak potek Anbour Annotek	anboien and rek ab	Here
Anbotek	In addition, instructions are also available in an alternative format such as on a website or in a format such as a DVD	Anbotek Anbotek A	nbotek
7.13	Instructions and other texts in an official language	k Anboren Anbor	Pot
7.14 mbote	Markings clearly legible and durable:	otek Anbotek Anbo	
k Aup	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified	nbotek Anbotek Anbot	P P
oter A	Uppercase letter of the text explaining the signal word not smaller than 1,6 mm	Anbotek Anbotek Ar	bote ^K N
Anbotek	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0,25 mm, unless	Anbotek Anbotek	Anbon Anbore
P	contrasting colours are used	Lok abotek Anbote	N
otek Ar	Markings checked by inspection, measurement and rubbing test as specified	hnbotek Anbotek Anbot	P I
7.15	Markings on a main part	anbotek Anbore An	P
Anbotek	Marking clearly discernible from the outside, if necessary after removal of a cover	Anbotek Anbotek	Anborel Anborel
Anbo	For portable appliances, cover can be removed or opened without a tool	ek Anborek Anbotek	Nab
hek An	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation	Anbotek Anbotek Anbot	P ^P
	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions	Ante Anbotek Anbotek	Anbotek
ek Ant	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	notek Anbotek Anbotek Anboter	P
boten	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180	Anbotek Anbotek A	nboteŇ
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link	k Anbotek Anbotek	Anbo Anbo
8	PROTECTION AGAINST ACCESS TO LIVE PART	S	
8.1	Adequate protection against accidental contact with live parts	Anbotek Anbotek Anbo	hotek
8.1.1	Requirement applies for all positions, detachable parts removed	Anbotek Anbote A	Anborek
Anbors	Lamps behind a detachable cover not removed, if conditions met	Anbound Anbotek	P.N.ot

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Clause	Requirement + Test	Result - Remark	Verdict
akcie prik	Anbote Anbote Anb	anbolat lando, pr	otet
otek tek	Insertion or removal of lamps, protection against contact with live parts of the lamp cap	Anbotek Anbotek And	N ^{otote} N
Anborek	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts	Anbotek Anbotek	An ^b P
Anbote Anb	Use of test probe B of IEC 61032 through openings, with a force of 20N: no contact with live parts	optek Anbotek Anbo	P
8.1.2	Use of test probe 13 of IEC 61032, with a force not exceeding 1 N, through openings in class 0 appliances and class II appliances/constructions: no contact with live parts	Anbotek Anbotek Anbotek A	Anbotek
Anbotel	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts	otek Anbotek Anbotek	A:NO Ant
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		botek
Anbotek	For a single switching action obtained by a switching device, requirements as specified	Anbotek Anbotek	Anbore
Anb	For appliances with a supply cord and without a switching device, the single switching action may be obtained by the withdrawal of the plug	npotek Anbotek Anbotek	N ^{cio} P
8.1.4	Accessible part not considered live if:	Anboro Ano stek un	p ^{otek} N
botek	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V	Anbotek Anbotek	Anbot N
Anbotek	- safety extra-low d.c. voltage: not exceeding 42.4 V	tek Anbotek Anbotek	Anb
Anboi	- or separated from live parts by protective impedance	botek Anboiek Anbotek Anbot	N
potek H.	If protective impedance: d.c. current not exceeding 2 mA, and	Anborek Anborek Ant	bote ^k N
nbotek	a.c. peak value not exceeding 0.7 mA	hotek Anbor	Ner
Anbotek	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0,1 μF	ek Anbotek Anbotek	Anno
Anbon sk ant	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC	sotek Anbotek Anbote	N M
otek	- for peak values over 15kV, the energy in the discharge not exceeding 350 mJ	Anbotek Anbotek Anb	N
8.1.5	Live parts protected at least by basic insulation before	ore installation or assembly:	anbo <u>tek</u>
Anbotek	- built-in appliances	anbotek Anbo	No
bote	- fixed appliances	tek abotek Anbote	N
Þ., .	- appliances delivered in separate units	An atek nabotel	N

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abote	IEC 60335-1	tek soboten Anbo	
Clause	Requirement + Test	Result - Remark	Verdict
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	Anbotek	nbote ^k Anbotek
K Anbors	Only possible to touch parts separated from live parts by double or reinforced insulation	obtek Anboit Anbotek Anbotek	N _{An} t
9	STARTING OF MOTOR-OPERATED APPLIANCE	S	
nbotek	Requirements and tests are specified in part 2 when necessary	Anborek Anbotek Ar	oote N
10	POWER INPUT AND CURRENT	1971 - 1972 -	
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1 :	(see appended table)	Anb Anb
otek Al Inbotek Anbotek Anbotek	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	Anbotek	Anbotek Anbotek
Anbo	Otherwise the power input is the arithmetic mean value	npotek Anboten Antr	N N
nbotek	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	Anbotok Anbotek Ant	o ^{tek} N
Anborrek	the rated power input is related to the arithmetic mean value	Anborek Anborek	ANPre
10.2 Anbot	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)	P
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 ek Anbotek Anbotek Lotek Anbotek Anbotek	Anbotek Anbotek
ek anb	Otherwise the current is the arithmetic mean value	hotek anbotek Anbor	N N
potek r	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	Anbotek Anbotek Anb	botelN
Anbotek	the rated current is related to the arithmetic mean value of the range	anbotek Anbotek	Anbo Anbote
11	HEATING	6.55	1

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lause	Requirement + Test	Result - Remark	Verdict
P.C.	ok bolek Anbole Ane	Anborek Anbo A.	Hote
11.1	No excessive temperatures in normal use	abovek Anbove And	-ote P
11.2	The appliance is held, placed or fixed in position as described	Anbotek Anbotek A	Anborek
11.3 Anbote	Temperature rises, other than of windings, determined by thermocouples	otek Anbotek Anbotek	P ^O
r Prup	Temperature rises of windings determined by resistance method, unless	nbotek Anbotek Anbo	N N
hotek P	the windings are non-uniform or it is difficult to make the necessary connections	Anbotek Anbotek Ar	bote ^K N
11.4	Heating appliances operated under normal operation at 1.15 times rated power input (W):	Anbotek Anboten	Anb ^C N Anbot
11.5 Anboro	Motor-operated appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)	254.4V	PAnt
11.6	Combined appliances operated under normal operation at most unfavourable voltage between 0.94 and 1.06 times rated voltage (V)	Anbotek Anbor An Anbotek Anbotek An	ote ^k N
11.7	Operation duration corresponding to the most unfavourable conditions of normal use	Anbotek Anbotek	Anbore
11.8	Temperature rises monitored continuously and not exceeding the values in table 3	(see appended table)	Pnb
ek pr	If the temperature rise of a motor winding exceeds the value of table 3, or	Anbotek Anboter Anbo	o ^{tek} N
pototek	if there is doubt with regard to classification of insulation,	Anboro Ann	unbot N
hotek	tests of Annex C are carried out	k botek Anboten	N
Pro	Sealing compound does not flow out	An botek Anbotek	Р
Pun	Protective devices do not operate, except	bore Ann sotek Anbore	PP
potek An	components in protective electronic circuits tested for the number of cycles specified in 24.1.4	Anbotek Anbotek Anb	otek N
13	LEAKAGE CURRENT AND ELECTRIC STRENGT	H AT OPERATING	
13.1	Leakage current not excessive and electric strength adequate	tek anboitek Anboitek	Roc
k Ant	Heating appliances operated at 1.15 times the rated power input (W)	nbotek Anbotek Anbote	N ^A
otek	Motor-operated appliances and combined appliances supplied at 1.06 times the rated voltage (V):	254.4V	nbotelP
Anboten	Protective impedance and radio interference filters disconnected before carrying out the tests	Anbotek Anbotek	Ambo
13.2	The leakage current is measured by means of the circuit described in Figure 4 of IEC 60990:1999	oto Ann Annotek Anbotek	N

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bote	IEC 60335-1	ek shotek Anbo	P
Clause	Requirement + Test	Result - Remark	Verdict
P.I.	Lotek Anboten Anbu tek popotek	Anbor An hotek Anbo	ter p
	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 A	ibote ^l P
Anbotek	Leakage current measurements	(see appended table)	Potek
13.3	The appliance is disconnected from the supply	tek abotek Anbote	Р
K	Electric strength tests according to table 4	(see appended table)	P
- pill	No breakdown during the tests	phoot All botek Anbo	P
14	TRANSIENT OVERVOLTAGES	-0° 60°	
Anborek	Appliances withstand the transient over-voltages to which they may be subjected	Anbotek Anbotek	Anbon
Anbotek Anbo	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)	N
otek A	No flashover during the test, unless	hotek Anboten Anbo	N
Anbotek	of functional insulation if the appliance complies with clause 19 with the clearance short-circuited	Anbotek Anbotek An	N
15	MOISTURE RESISTANCE		
15.1	Enclosure provides the degree of moisture protection according to classification of the appliance	tek Anboten Anbo Anbotek Anbotek Anbotek	N Anbot
nbotek An	Compliance checked as specified in 15.1.1, taking into account 15.1.2, followed by the electric strength test of 16.3	Anbotek Anbotek Ant	otek N
Anbotek	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 Anbotek Anbotek	Anbore
15.1.1 mo	Appliances, other than IPX0, subjected to tests as specified in IEC 60529	botek Anbotek Anbotek	N
hotek hotek	Water valves containing live parts in external hoses for connection of an appliance to the water mains tested as specified for IPX7 appliances	Anbotek Anbotek Anb	nbotek
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test	Anboitek Anbotek	AntoN
Anbote	Built-in appliances installed according to the instructions	otek Anbotek Anbotek	N
ek Ant	Appliances placed or used on the floor or table placed on a horizontal unperforated support	nobotek Anbotek Anbo	ie ^k N p
Anbotek	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board	Antotek Antotek A	Anborek
Anbote	For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube	otek Anbotek Anbotek	PN Anbo

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bote	IEC 60335-1	rek nbotek Anbo	
Clause	Requirement + Test	Result - Remark	Verdict
botek A	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube, and	Anbotek Anbotek Anbotek A	bole N
Anbotek Anbotek	for appliances normally used on the floor or table, the movement is limited to two times 90° for a period of 5 min, the support being placed at the level of the pivot axis of the oscillating tube	otek Anbotek Anbotek otek Anbotek Anbotek otek Anbotek Anbotek	Anbre
potek Al	Wall-mounted appliances, take into account the distance to the floor stated in the instructions	Anbotek Anbotek Anbo	N P
Anbotek Anbotek	Appliances normally fixed to a ceiling are mounted underneath a horizontal unperforated support, the pivot axis of the oscillating tube located at the level of the underside of the support, and	Anbotek Anbotek Anbotek Anbotek	AnboN ^K Anbotek
otek Anbo	for IPX4 appliances, the movement of the tube is limited to two times 90° from the vertical for a period of 5 min	botek Anbotek Anbotek Anbotek	N
unbotek	Appliances with type X attachment fitted with a flexible cord as described	Ant Anbotek Andotek An	N N
Anbotek	Detachable parts subjected to the relevant treatment with the main part	Anbotek Anbotek	Andrek
Anbot Anbot	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed	nootek Anbotek Anbotek	Nabo
15.2	Spillage of liquid does not affect the electrical insulation	Anbottek Anbotek Ant	o ^{ter} N
Anbotek	Spillage solution comprising water containing approximately 1 % NaCl and 0,6 % rinsing agent	Anbotek Anbotek	Anborek
Anbote	Appliances with type X attachment fitted with a flexible cord as described	tek Anbore Anborek	Nison
tek Anb	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable	Anbotek Anbotek Anbotek Anbote	otek N Am
Lotek	Detachable parts are removed	Ant Lotek Anbotek P	NDO'N
Anbotek	Overfilling test with additional amount of the solution, over a period of 1 min (I)	ek Anbotek Anbotek	Anbo
Anbote	The appliance withstands the electric strength test of 16.3	potek Anbotek Anbotek	N
botek Anto	No trace of water on insulation that can result in a reduction of clearances or creepage distances below values specified in clause 29	Anbotek Anbotek Anbo	botek
15.3	Appliances proof against humid conditions	Anbo tek abotek	Anto P
Anbon	Checked by test Cab: Damp heat steady state in IEC 60068-2-78	Anborek Anbotek	A P. offe

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IEC 60335-1				
Clause	Requirement + Test	Result - Remark	Verdict	
p.r.	stek soboten Anbe botek	Anboir Air Alek unbo	der.	
	Detachable parts removed and subjected, if necessary, to the humidity test with the main part	Anbotek Anbo	nbote P	
And	Humidity test for 48 h in a humidity cabinet	RH: 93%, temperature: 25° C	Anbor	
Anbotek	Reassembly of those parts that may have been removed	Anto Anbotek Anbotek	P	
K anbc	The appliance withstands the tests of clause 16	wotek Anbotek Anbo	P	
16	LEAKAGE CURRENT AND ELECTRIC STRENGTI	4		
16.1	Leakage current not excessive and electric strength adequate	Anbotek Anbotek An	^{oo} P	
Anbotek	Protective impedance disconnected from live parts before carrying out the tests	Anbotek Anbotek	Antore	
Anbo	Tests carried out at room temperature and not connected to the supply	botek Anbotek Anbotek	Pant	
16.2	Single-phase appliances: test voltage 1.06 times rated voltage (V)	Anbotek Anboten Anb	otek P	
hotek	Three-phase appliances: test voltage 1.06 times rated voltage divided by $\sqrt{3}$ (V)	Anbois Anbotek	Anbo'N	
botek	Leakage current measurements	(see appended table)	Р	
P	Limit values doubled if:	K hotek Anboten	Ň	
priv	- all controls have an off position in all poles, or	pote Ano hotek Anboth	N	
potek An	- the appliance has no control other than a thermal cut-out, or	Amborek Amborek Ant	o ^{tek} N	
Anbotek	- all thermostats, temperature limiters and energy regulators do not have an off position, or	Anbotek Anbotek	Anborel	
Aupon	- the appliance has radio interference filters	ek Anborn A hotek	No	
Anbor	With the radio interference filters disconnected, the leakage current do not exceed limits specified :	(see appended table)	N	
16.3	Electric strength tests according to table 7	(see appended table)	Р	
Anbotek	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified	(see appended table)	nboten Anbotek	
Anboi	No breakdown during the tests	Anbou ok hotek	P ^{oo}	
17	OVERLOAD PROTECTION OF TRANSFORMERS CIRCUITS	AND ASSOCIATED		
otek A	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use	(see appended table)	botek 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)	Anbotek Anbotek	Anbor Anbor	
Por	Basic insulation is not short-circuited	tek unborek	N	

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anbor	IEC 60335-1	otek Anbort An	
Clause	Requirement + Test	Result - Remark	Verdict
Anbotek A	Temperature rise of insulation of the conductors of safety extra-low voltage circuits not exceeding the relevant value specified in table 3 by more than 15 K	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	bote ^N
Anbotek	Temperature of the winding not exceeding the value specified in table 8	hek Anbotek Anbotek	N
k Aupo	However, limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1	nbotek Anbotek Anbo	ek N
18	ENDURANCE		
Anbotek	Requirements and tests are specified in part 2 when necessary	Anbotek Anbotek	Anbore
19	ABNORMAL OPERATION		
19.1 M ¹⁰⁰	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated	Anbotek Anbotek Anbot	o ^k P I
nboten	Electronic circuits so designed and applied that a fault will not render the appliance unsafe	(see appended table)	Р
Anbotek	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and	ek Anbotek Anbotek	Anb
tek An	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and	potek Anbore And	r N p
botek	if applicable, to the test of 19.5	anbotek Anbott An	N
Anbotek	Appliances incorporating PTC heating elements are also subjected to the test of 19.6	Anbotek Anbotek	Anborek
Anbore	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable	tek photok Anbotek	Rive
iek Ant	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable	anbotek Anbotek Anbo	tek N A
Anbotek	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11	Anbotek Anbotek A	Anbotek
Anbote	Appliances incorporating voltage selector switches subjected to the test of 19.15	otek Anbotek Anbotek	N
otek Anb	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or	Anbotek Anbotek Anbo	ie ^k N
Anbotek	until steady conditions are established	Anboten Anbor P	nb P ^{jk}
Anbotek	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample	Anbotek Anbotek	Anbot

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Clause	Requirement + Test	Result - Remark	Verdict
su bug	of boten Anbeit Ann otek	unboten prob	otet
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 A	nbotek
19.3	Test of 19.2 repeated; test voltage (V), power input of 1.24 times rated power input (W)	Anbotek Anbotek	Ambote
19.4	Test conditions as in clause 11, any control limiting the temperature during tests of clause 11 short-circuited	nbotek Anbotek Anbotek	NAM
19.5	Test of 19.4 repeated on Class 0I and I appliances with tubular sheathed or embedded heating elements. No short-circuiting, but one end of the element connected to the sheath	Anborek Anbotek Ar Anbotek Anbotek	Anbotek
Anboter Anbo	The test repeated with reversed polarity and the other end of the heating element connected to the sheath	botek Anbotek Anbotek	N Anb
nbotek An	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	Anbotek Anbotek An Anbotek Anbotek An	botek N Anbotek
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions	ek Anbotek Anbotek	Anbo
hek Anbot botek An	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	ortek Inbotek
19.7	Stalling test by locking the rotor if the locked rotor torque is smaller than the full load torque, or	ak Anbotek Anbotek	Anpo
Anbore	locking moving parts of other appliances	otek Anboten Anbo	N
ek Ant	Locked rotor, capacitors open-circuited one at a time	Anbotek Anbotek Anb	o ^{tek} N
poto l	Test repeated with capacitors short-circuited one at a time, unless	Anbotek Anbotek	nboten N
notek	the capacitor is of class S2 or S3 of IEC 60252-1	k hotek Anboten	N
Anbotel Anbotel	Appliances with timer or programmer supplied with rated voltage for each of the tests, for a period equal to the maximum period allowed:	otek Anbotek Anbotet	N
potek p	An electronic timer or programmer that operates to ensure compliance with the test before the maximum period under the conditions of Clause 11 is reached, is a protective electronic circuit	Anbotek Anbotek Anb	N
Anboten	Other appliances supplied with rated voltage for a period as specified	Anboten Anbo	Р

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pabo'	IEC 60335-1	letek probo A"	
Clause	Requirement + Test	Result - Remark	Verdic
otek p	Winding temperatures not exceeding values specified in table 8	(see appended table)	Ρ
19.8	Multi-phase motors operated at rated voltage with one phase disconnected	Anbotek Anbotek	Ν
9.9 March 19.9	Running overload test on appliances incorporating motors intended to be remotely or automatically controlled or liable to be operated continuously	stek Anbotek Anbotek Anbotek	N
nbotek Anbotek	Motor-operated and combined appliances for which 30.2.3 is applicable and that use overload protective devices relying on electronic circuits to protect the motor windings, are also subjected to the test	Anbotek Anbotek Anbotek Anbotek Anbotek	Ν
Anbotek	Winding temperatures not exceeding values as specified	(see appended table)	Ν
19.10	Series motor operated at 1.3 times rated voltage for 1 min (V):	anbotek Anbotek Anbot	Ν
botek	During the test, parts not being ejected from the appliance	Anbotek Anbotek An	Ν
9.11	Electronic circuits, compliance checked by evaluation of the fault conditions specified in 19.11.2 for all circuits or parts of circuits, unless	ek Anbotek Anbotek	Ν
Aupon	they comply with the conditions specified in 19.11.1	potek Anbour An	Ν
ek An	Appliances incorporating an electronic circuit that relies upon a programmable component to function correctly, subjected to the test of 19.11.4.8, unless	Anbotek Anbotek Anb	N
Anboten	restarting does not result in a hazard	Anboter Anbo	Ν
Anbotek Anbote	Appliances having a device with an off position obtained by electronic disconnection, or a device placing the appliance in a stand-by mode, subjected to the tests of 19.11.4	otek Anbotek Anbotek otek Anbotek Anbotek	Ν
Anbotek	If the safety of the appliance under any of the fault conditions depends on the operation of a miniature fuse-link complying with IEC 60127, the test of 19.12 is carried out	Anbotek Anbotek Anb	Ν
Anboten	During and after each test the following is checked:	ek Anboten Anb	Ν
Anbote	- the temperature of the windings do not exceed the values specified in table 8	otek Anboten Anbo	Ν
otek p	- the appliance complies with the conditions specified in 19.13	nbotek Anbotek Anbo	Ν
nbotek	- any current flowing through protective impedance not exceeding the limits specified in 8.1.4	Anbotek Anbotek Ar	Ν
Anbore	If a conductor of a printed board becomes open-circ considered to have withstood the particular test, pro- conditions are met:		

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Clause	Requirement + Test	Result - Remark	Verdict
un bu	And And And And	Anbois Air anbo	oter 1
boten	- the base material of the printed circuit board withstands the test of Annex E	Anbotek Anbotek A	N
Anbotek Anbotek	- any loosened conductor does not reduce clearance or creepage distances between live parts and accessible metal parts below the values specified in clause 29	Anbotek Anbotek Anbotek Anbotek Anbotek	N
19.11.1	Fault conditions a) to g) in 19.11.2 are not applied to meeting both of the following conditions:	o circuits or parts of circuits	N
Anbotek	- 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	Anborek Anbotek Ar Anbotek Anbotek	N
Anbote Anbote	- 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	otek Anbotek Anbotek botek Anbotek Anbotek	N
19.11.2	Fault conditions applied one at a time, the appliance specified in clause 11, but supplied at rated voltage, specified:		
Anbotek	a) short circuit of functional insulation if clearances or creepage distances are less than the values specified in clause 29	ek Anbotek Anbotek	N
k Anbr	b) open circuit at the terminals of any component	notek Anboten And	N
stek p	c) short circuit of capacitors, unless	wotek Anboten Anbo	N
Here	they comply with IEC 60384-14	And stek unbotek Ant	N
Anbotek	d) short circuit of any two terminals of an electronic component, other than integrated circuits	Anbotek Anbotek	N
Anbotek	This fault condition is not applied between the two circuits of an optocoupler	nk Anbotek Anbotek	N
Anto	e) failure of triacs in the diode mode	boten Ando otek unbote	N
Net Ar	f) failure of microprocessors and integrated circuits	anboten Anbou tek ab	N
hotek	g) failure of an electronic power switching device	Anborek Anbor An	N
Anbotek Anbotek	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	ek Anbotek Anbotek	N
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	Inbotek Anbotek Anbotek	N
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or	Anbotek Anbotek A	N
Anbotek	a device that can be placed in the stand-by mode,	anbotek Anbo	N
anboth ak nat	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	otek Anbotek Anbotek	N
Pre-	let apple Mar	Nov Minest	

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be	a solo And solo		
lause	Requirement + Test	Result - Remark	Verdict
be.	ntek enboter Ant abotek	Anbo. Ar untek anbr	10.
nbotek Anbotek	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	Anbotek Anbotek A Anbotek Anbotek A	N
Anbors	appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena.	nbotek Anbotek Anbotek	N
ter A	Surge protective devices disconnected, unless	Anbotek Anbo	N
potek	They incorporate spark gaps	Anboten Anbo tek	N
9.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4	anbotek Anbotek drek Anbotek Anbotek	N
9.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, at frequency ranges specified	nbotek Anbotek Anbo	N
9.11.4.3	The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4, test level 3 or 4 as specified	Anbotek Anbotek An	N
9.11.4.4	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	tek Anbotek Anbotek	N
ek An	An open circuit test voltage of 2 kV is applicable for the line-to-line coupling mode	Anbotek Anboten Anbo	N
obotek	An open circuit test voltage of 4 kV is applicable for the line-to-earth coupling	Anbotek Anbotek	N
	Earthed heating elements in class I appliances disconnected	ak Anbotek Anboten	N
9.11.4.5	The appliance is subjected to injected currents in accordance with IEC 61000-4-6, test level 3	botek Anbois Ain	N
9.11.4.6	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	Anbotek Anbotek Anb	N
Anbotek	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	ek Anbotek Anbotek	N
9.11.4.7	The appliance is subjected to mains signals in accordance with IEC 61000-4-13, test level class 2	nbotek Anbotek Anbote	N
9.11.4.8	The appliance is supplied at rated voltage and operated under normal operation. After 60s the power supply is reduced to a level such that the appliance ceases to respond or parts controlled by the programmable component cease to operate	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N
nbotet	The appliance continues to operate normally, or	Hek unbotek Anbo	N
			1

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both	IEC 60335-1	tek nbotek Anbo	hr,
Clause	Requirement + Test	Result - Remark	Verdic
19.12	If the safety of the appliance for any of the fault conditions specified in 19.11.2 depends on the operation of a miniature fuse-link complying with IEC 60127, the test is repeated, measuring the current flowing through the fuse-link; measured current (A); rated current of the fuse-link (A)	Anbotek	N
19.13	During the tests the appliance does not emit flames, molten metal, poisonous or ignitable gas in hazardous amounts	photek Anbotek Anbotek Anbo	Р
nbotek	Temperature rises not exceeding the values shown in table 9:	(see appended table)	Ρ
Anboten	Compliance with clause 8 not impaired	k Anbotes Anbo	Р
Anbote	If the appliance can still be operated it complies with 20.2	otek Anboten Anbotek	Ν
stek A	Insulation, other than of class III appliances or class contain live parts, withstands the electric strength te specified in table 4:		Р
100°	- basic insulation (V):	Anbon ok hotek	Р
Anbois	- supplementary insulation (V)	Anboth k hotek	Р
Anboron	- reinforced insulation (V)	blek Anboren Anon otek	Р
ek Arbo botek	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	Anbotek	Р
Anbotek	The appliance does not undergo a dangerous malfunction, and	Anbotek Anbotek	Ρ
Anbot	no failure of protective electronic circuits, if the appliance is still operable	hotek Anbotek Anbotek	Ν
ok pri	Appliances tested with an electronic switch in the of mode:	f position, or in the stand-by	Ν
,0 ¹⁰ .	- do not become operational, or	Anboth K hotek A	Ν
Anboto. Anbotek	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4	ek Anbotek Anbotek	N
K Anbo	If the appliance contains lids or doors that are control one of the interlocks may be released provided that		Ν
otek	- the lid or door does not move automatically to an open position when the interlock is released, and	Anbotek Anbotek Anbo	Ν
nbotek	- the appliance does not start after the cycle in which the interlock was released	Anboten Anbotek	Ν
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	otek Anbotek Anbotek	Ν

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abover	IEC 60335-1	stek suboten And	e e e e e e e e e e e e e e e e e e e
lause	Requirement + Test	Result - Remark	Verdic
bu.	tak poter Anbo k potek	anboit An ek abo	Non-
	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time	Anbotek Anbor An	N
Anbotek botek	A relay or contactor operating only to ensure the appliance is energized for normal use is not short- circuited	Anborek Anbotek Anbotek Anbotek	N
Ant	If more than one relay or contactor operates in clause 11, they are short-circuited in turn	abotek Anbotek Anbotek	N
19.15	For appliances with a mains voltage selector switch, the switch is set to the lowest rated voltage position and the highest value of rated voltage is applied	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N
20	STABILITY AND MECHANICAL HAZARDS		
20.1	Appliances having adequate stability	ten Anbo tek abotek	Р
tek Anbor botek	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	Anbotek Anbotek Anbotek Anbote	Р
Anbotek	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°	Anbotek Anboter	N
Anborn Anborr	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9	ek Anbolo potek Anbotek Anbotek	N
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury	Anbotek Anbotek Anb	Р
Anbotek	Protective enclosures, guards and similar parts are non-detachable, and	Anbotek Anbotek	Р
Anboten	have adequate mechanical strength	ok Anboter Anb	Р
Anbote	Enclosures that can be opened by overriding an interlock are considered to be detachable parts	otek Anboten Anbo	N
sotek p	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure	Anbotek Anbotek Anb	N
Anbotek	Not possible to touch dangerous moving parts with the test probe described	Anbotek Anbotek	N
21	MECHANICAL STRENGTH		
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling	nbotek Anbotek Anboto	Р
nbotek A	Checked by applying 3 blows to every point of the enclosure like to be weak, in accordance with test Ehb of IEC 60068-2-75, spring hammer test, with an impact energy of 0,5 J	(see appended table)	Р
Annobotek	The appliance shows no damage impairing compliance with this standard, and	tek snbotek Anbotek	Р

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pabore	IEC 60335-1	PI	
Clause	Requirement + Test Result - Remark	tek Aupor	Verdic
Pr.	Lotek Anboten Anbo	hotek Anbo	Her.
poten P	compliance with 8.1, 15.1 and clause 29 not impaired	Anbotek A	Р
Anbotek	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3	Anbotek	N
Anbotet	If necessary, repetition of groups of three blows on a new sample	tek Anborek	N
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements	ibotek Anbo	Р
unbotek Anbotek	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm	Anbotek An Anbotek	Р
Anbotek	The insulation is tested as specified, and does withstand the electric strength test of 16.3	Anbore Anborek	N
22	CONSTRUCTION		
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled	Anbotek An	N
22.2	Stationary appliance: means to ensure all-pole disconnection from th provided:	e supply being	
Anbo	- a supply cord fitted with a plug, or	ak abotek	Р
Pupo,	- a switch complying with 24.3, or	at note	Р
ibotek	- a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or	Anbotek Anb	N
Anbotek	- an appliance inlet	And	N
Anbotek Anbote	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	K Anbotek otek Anbotek	N
22.3	Appliance provided with pins: no undue strain on socket-outlets	Anbotek A	N
Annotek	Applied torque not exceeding 0.25 Nm	Anbotek	N
Anb ^o Anb ^{otel} Anb	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	htek Anbotek	N
otek p	Each pin subjected to a torque of 0.4Nm; the pins are not rotating, unless	nbotek An	N
Anborek	rotating does not impair compliance with this standard	Anbotek	N
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets	Anbotek tek Anbotek	N

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Clause	Requirement + Test	Result - Remark	Verdict
Dra Bri	tek poten And	Anbor An Alek mbr	yter 1
22.5	No risk of electric shock when touching pins, for appliances having a capacitor with rated capacitance equal to or greater than $0,1\mu$ F, the appliance being disconnected from the supply at the instant of voltage peak	Anbotek Anbotek A Anbotek Anbotek A Anbotek Anbotek	P
Anbor	Voltage not exceeding 34 V (V):	otek Anbor An	Р
botek Ant	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	Anbotek Anbotek Anbo	N
Anbotek	The discharge test is then repeated three times, voltage not exceeding 34 V (V)	Anborek Anborok	N
22.6	Electrical insulation not affected by condensing water or leaking liquid	tek Anbotek Anbotek	N
ek Anbr	Electrical insulation of Class II appliances not affected if a hose ruptures or seal leaks	botek Anbotek Anbot	N
pore P	In case of doubt, test as described	Anbore Ant sotek An	N
22.7	Adequate safeguards against the risk of excessive pressure in appliances containing liquid or gases or having steam-producing devices	Anbotek Anbotek Anbotek	N
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	ootek Anborek Anbotek Anbotek	N
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless	Anbotek Anbotek Ant	Р
pr. botek	the substance has adequate insulating properties	ak abotek Anbote.	N
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:	notek Anbotek Anboten Anbotek Anbotek Anbote Anbotek Anbotek Anbote	N
nboten	- a non-self-resetting thermal cut-out is required by the standard, and	Anbotek Anbotek A	N
Antotek	- a voltage maintained non-self-resetting thermal cut-out is used to meet it	k Anbotek Anbotek	N
Anbot	Non-self-resetting thermal motor protectors have a trip-free action, unless	otek Anboten Anbo	N
Nen Pri	they are voltage maintained	Inboren Andrew Andrew	N
Anbotek	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely	Anboten Anbo Anbotek Anbotek A	N
22.11 22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts	tek Anbotek Anbotek	Р

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Nouce	Dequirement L Test	Docult Domonic	Vard
Clause	Requirement + Test	Result - Remark	Verdic
otek p	Obvious locked position of snap-in devices used for fixing such parts	Anbotek Anbotek Anbo	P
Anbotek Anbotek	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing	Anbotek Anbotek	Р
Pup	Tests as described	And And And And And	Р
22.12	Handles, knobs etc. fixed in a reliable manner, if loosening result in a hazard	phone Anborek Anbor	Р
nbotek	Removing or fixing in wrong position of handles, knobs etc. indicating position of switches or similar components not possible, if resulting in a hazard	Anbotek Anbotek Ar	N
Anbotek	A choking hazard does not apply to appliances for commercial use	otek Anbotek Anboto	N
tek Anbo	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied	hotek Anbor A	N
hotek	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	Anbotek Anbotek An	Р
Anbotek	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	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance	Anbotek Anbotek	Р
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	nk Anbotek Anbotek Anbotek	N
22.15	Storage hooks and the like for flexible cords smooth and well rounded	Anbotek Anbotek Anb	N
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 A Anbotek Anbotek A	N
Anbote	Cord reel tested with 6000 operations, as specified	otek Anbotek Anbo	N
k Anb	Electric strength test of 16.3, voltage of 1000 V applied	Inbotek Anbotek Anbote	N
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner	Anbotek Anbotek A	N
22.18	Current-carrying parts and other metal parts resistant to corrosion	Anbotek Anboten	N
22.19	Driving belts not relied upon to provide the required level of insulation, unless	otek Anbore Ano	N

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IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
pr.	Sotek Anboter And ster Anbotek	Anbo' An botek Anbo	Ne.
010. 1	constructed to prevent inappropriate replacement	Anbore Ann otek	N
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless	Anbotek Anbo	N
Anbotel	material used is non-corrosive, non-hygroscopic and non-combustible	tek Anbotek Anbotek	N
22.21 And	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless	hotek Anbotek Anbo	Ρ
pter p	impregnated	Anboten Anbo	N
Anbotek	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements	Anbotek Anbotek Anbotek	N
22.22	Appliances not containing asbestos	otek Anbote And otek	Р
22.23	Oils containing polychlorinated biphenyl (PCB) not used	botek Anboten Anb	Р
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported	Anboto Anto Anbotek Anbotek An	N
Anbo	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts	ek Anbotek Anbotek	N
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	potek Anbotek Anbote Anbotek Anbotek Anbote	N
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	Anboro Ann Anborek Anborek Anborek Anborek	N
22.27 Minor	Parts connected by protective impedance separated by double or reinforced insulation	potek Anbotek Anbote	N
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 Anb Anbotek Anbotek Anb	N
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	atek Anbotek Anbotek	N
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or	nbotek Anbotek Anbotek Anbote	N
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 A	N

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anbore	IEC 60335-1	otek anbore An-	
Clause	Requirement + Test	Result - Remark	Verdict
22.31	Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear	Anborek Anborek Anborek Anborek Anborek Anborek Anborek Anborek	Ρ
Anbotek Anbotek	Neither clearances nor creepage distances between live parts and accessible parts reduced below values for supplementary insulation if wires, screws etc. become loose	prek Anbotek Anbotek Anbotek Anbotek Anbotek	Р
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 An	Ρ
Anbotek	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	tek Anbotek Anbotek botek Anbotek Anbotek	Ν
hbotek An	Ceramic material not tightly sintered, similar materials or beads alone not used as supplementary or reinforced insulation	Anbotek Anbotek Ant Anbotek Anbotek Ant	Ν
Anbotek	Ceramic and similar porous material in which heating conductors are embedded is considered to be basic insulation, not reinforced insulation	ek Anbotek Anbotek	N
Anbo.	Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature	potek Anbotek Anbotek Anbote	Ν
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	And Anbotek Anbotek And Anbotek Anbotek f	Ν
Anbois	unearthed metal parts separated from live parts by basic insulation only	ek Anbolek Anbolek	Ν
ak ab	Electrodes not used for heating liquids	so hek abotek Anbote	Ν
Anbotek A	For class II constructions, conductive liquids that are or may become accessible in normal use and conductive liquids that are in contact with unearthed accessible metal parts, not in direct contact with basic or reinforced insulation, unless	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Ν
All hotek	the reinforced insulation consists of at least 3 layers	All hotek Anboten	Ν
and And	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation, unless	nbotek Anbotek Anbotek Anbo	Ν
o. P	the reinforced insulation consists of at least 3 layers	Anbo, at abotek Ar	Ν
Anboitek	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 Anbotek	Ν
22.34	Shafts of operating knobs, handles, levers etc. not live, unless	hotek Anbotek Anbotek	Ρ

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Clause	Requirement + Test	Result - Remark	Verdic
Jiause	Requirement + Test	Result - Remain	veruic
otek A	the shaft is not accessible when the part is removed	Anbotek Anbotek Anbo	Ν
22.35	For other than class III constructions, handles, levers and knobs, held or actuated in normal use, not becoming live in the event of a failure of basic insulation	Anboitek Anbotek Diek Anbotek Anbotek	Ν
k Anbo otek Ar nbotek	Such parts being of metal, and their shafts or fixings are likely to become live in the event of a failure of basic insulation, are either adequately covered by insulation material or their accessible parts are separated from their shafts or fixings by supplementary insulation	Anbotek	Z
Anbotek Anbotek hek An	This requirement does not apply to handles, levers and knobs on stationary appliances and cordless appliances, other than those of electrical components, provided they are reliably connected to an earthing terminal or earthing contact, or separated from live parts by earthed metal	anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbot	Ν
Anbotek	Insulating material covering metal handles, levers and knobs withstand the electric strength test of 16.3 for supplementary insulation	Anboitek Anbotek	Ν
22.36	For appliances other than class III, handles continuously held in the hand in normal use so constructed that when gripped as in normal use, the operators hand is not likely to touch metal parts, unless	ek Anbo Dotek Anbotek Anbotek Anbotek Anbotek Anbote Anbotek Anbotek Anb	Ζ
anbotek.	they are separated from live parts by double or reinforced insulation	Anbotek Anbotek	Ν
22.37	Capacitors in Class II appliances not connected to accessible metal parts and their casings, if of metal, separated from accessible metal parts by supplementary insulation, unless	ok Anbotek Anbotek Dotek Anbotek Anbotek	Ν
on Aus	the capacitors comply with 22.42	Anboron Anto tek anbo	Ν
22.38	Capacitors not connected between the contacts of a thermal cut-out	Anbotek Anbotek A	Ν
22.39	Lamp holders used only for the connection of lamps	An hotek Anboten	Ν
22.40	Motor-operated appliances and combined appliances intended to be moved while in operation, or having accessible moving parts, fitted with a switch to control the motor. The actuating member of the switch being easily visible and accessible	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N
Anbotek Anbotek Anbotek	If the appliance cannot operate continuously, automatically or remotely without giving rise to a hazard, appliances for remote operation being fitted with a switch for stopping the operation. The actuating member of the switch being easily visible and accessible	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Ν

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pabo	IEC 60335-1	Noter prop	-
lause	Requirement + Test	Result - Remark	Verdic
<i>b</i>	otek onboter And at potek	Anbo, An stek nobo	10.
2.41	No components, other than lamps, containing mercury	k Anbotek Anbotek Al	Ν
2.42	Protective impedance consisting of at least two separate components	botel Anbotek Anbotek	Ν
Anbotek	Values specified in 8.1.4 not exceeded if any or the components are short-circuited or open- circuited	ne of	Ν
tek Ar	Resistors checked by the test of 14.1 a) in IEC 60065	Anbotek Anbotek An	Ν
hborbotek	Capacitors checked by the tests for class Y capacitors in IEC 60384-14	stek Anboit Anbotek Anbotek	Ν
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur	Anbolek Anbotek Anbotek Anbotek	Ν
2.44	Appliances not having an enclosure that is shap or decorated like a toy	bed hubbles hubbles hubbles	Ρ
22.45	When air is used as reinforced insulation, clearances not reduced below the values specif in 29.1.3 due to deformation as a result of an external force applied to the enclosure	fied	Ρ
22.46 Minborn	For programmable protective electronic circuits used to ensure compliance with the standard, th software contains measures to control the fault/error conditions in table R.1		N
Anbotek Anbotek	Software that contains measures to control the fault/error conditions specified in table R.2 is to specified in parts 2 for particular constructions caddress specific hazards	be hotek Anbore	Ν
Anbote Anb	These requirements are not applicable to softwa used for functional purpose or compliance with clause 11	are Anbotek Anbotek Anbotek Anbotek	N
2.47	Appliances connected to the water mains withst the water pressure expected in normal use	tand hubbles hubbles hubbles	Ν
unboten botek	No leakage from any part, including any inlet wa hose	ater Andrew Andrew	Ν
2.48	Appliances connected to the water mains constructed to prevent backsiphonage of non- potable water	Anbotek Anbotek Anbotek Anbotek	N
2.49	For remote operation, the duration of operation be set before the appliance can be started, unle		Ν
nbotek	the appliance switches off automatically or can operate continuously without hazard	otek Anbotek Anbotek	Ν
2.50	Controls incorporated in the appliance take prio over controls actuated by remote operation	prity house house	Ν

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Puppor	IEC 60335-1	aten propo in cotel	
Clause	Requirement + Test	Result - Remark	Verdict
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	Anbotek Anbotek Anbo	N
Anbotek	There is a visual indication showing that the appliance is adjusted for remote operation	Anbotek Anbotek	N
K Aupo	These requirements not necessary on appliances th without giving rise to a hazard:	at can operate as follows,	N
otek p	- continuously, or	hotek Anbotek Anbo	N
otek	- automatically, or	And Lotek Anbotek An	N
nb-	- remotely	And otek Anbotek	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		Ν
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 Anbot Anbotek Anbotek Ant	N
22.54	Button cells and batteries designated R1 not accessible without the aid of a tool, unless	Anbotek Anbotek	N
Anbo	the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously	potek Anbotek Anbotek Anbotek	N
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	Anborek Anborek Anb Anborek Anborek Anb	N
Anbotek	The requirement concerning position does not preclude use of a push on push off switch	ok Anbotek Anbotek	N
Aup	An indication when the device has been operated is	given by:	N
otek An	 – tactile feedback from the actuator or from the appliance, or 	Anbotek Anbotek Anb	N
Lotek	- reduction in heat output; or	Am botek Anboten A	N
Anover	- audible and visible feedback	Ann hotek Anbotek	N
22.56	Detachable power supply part provided with the part of class III construction	otek Anbotek Anbotek	N
22.57	The properties of non-metallic materials do not degrade from exposure to UV-C radiation, as specified in Annex T	nbotek Anbotek Anbo	Ν
Inbotek	This requirement does not apply to glass, ceramics or similar materials	Anbotek Anboto Ar	N
23	INTERNAL WIRING		
23.1	Wireways smooth and free from sharp edges	tek noon pr.	Р

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Anbot	IEC 60335-1	totek anbor An	
Clause	Requirement + Test	Result - Remark	Verdic
potek	Wires protected against contact with burrs, cooling fins etc.	Anbotek Anbotek Anbo	Р
Anbotek	Wire holes in metal well-rounded or provided with bushings	Anbotek Anbotek	Ν
Anbote	Wiring effectively prevented from coming into contact with moving parts	otek Anbotek Anbotek	Р
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges	nbolet Anborek Anborek Anbo	Ν
Anbotek	Beads inside flexible metal conduits contained within an insulating sleeve	Anbotek Anbotek Ar	Ν
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress	tek Anbotek Anbotek	N
tek Anb	Flexible metallic tubes not causing damage to insulation of conductors	nbotek Anborek Anbot	Ν
*eV	Open-coil springs not used	And tek nobotek Ant	Ν
Anbotek	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another	Anbolick Anboliek	Ν
Anbotek	No damage after 10 000 flexings for conductors flexed during normal use, or	ek Anbotek Anbotek	Ν
htek And	100 flexings for conductors flexed during user maintenance	potek Anbotek Anbote	Ν
hbotek	Electric strength test of 16.3, 1000 V between live parts and accessible metal parts	Anbotek Anbotek Ant	Ν
Anboten	Not more than 10% of the strands of any conductor broken, and	Anbotek Anbotek	Ν
Anbo	not more than 30% for wiring supplying circuits that consume no more than 15W	potek Anbotek Anboten	Ν
23.4	Bare internal wiring sufficiently rigid and fixed	abotek Anbois An	Ν
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use	Anbotek Anbotek And	Р
Anbotek	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or	otek Anbotek Anbotek	N
ek Ani	no breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation	nbotek Anbotek Anbo	Р
Anbotek	For class II construction, the requirements for supplementary insulation and reinforced insulation apply,	Anbotek Anbotek A	N
Anbote	except that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation.	otek Anbotek Anbotek	N
p.	here we have a store	-10° 10°	

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Clause	Requirement + Test	Result - Remark	Verdic
er pro	at botek Anbote And	unboren problem he ho	10H
otek r	A single layer of internal wiring insulation does not provide reinforced insulation	Anbotek Anbotek An	N
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or	Anbotek Anbotek Anbotek Anbotek	Р
K Anbr	be such that it can only be removed by breaking or cutting	hotek Anbotek Anbotek	Ρ
23.7	The colour combination green/yellow only used for earthing conductors	Anbotek Anbote And	Ρ
23.8	Aluminium wires not used for internal wiring	Anbor Ar borek	Р
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless	tek Anbolek Anbolek	Ν
Anbo	the contact pressure is provided by spring terminals	botek Anbo, k hot	Ν
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 An Anbotek Anbotek An Anbotek Anbotek	Ν
24	COMPONENTS		
24.1	Components comply with safety requirements in relevant IEC standards	potek Anbote Ant	Ρ
-k po	List of components	(see appended table)	Р
,both ,botek	Motors not required to comply with IEC 60034-1, they are tested as part of the appliance	Anboto And Anbotek	Ν
hotek	Relays tested as part of the appliance, or	K botek Anbore	Ν
Anbot	alternatively acc. to IEC 60730-1, and meeting the additional requirements in IEC 60335-1	potek Anbotek Anbotet	Ν
ek Ant	The requirements of Clause 29 apply between live parts of components and accessible parts of the appliance	Anbotek Anbotek Anb	Р
Anbotek Anbotek	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard	Anbotek Anbotek	Р
Anbote ak Anb	30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections	nbotek Anbotek Anbotek Anbotek	Ρ
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	Anbotek Anbotek Ar	Ρ

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IEC 60335-1			
Clause	Requirement + Test	Result - Remark	Verdict
Anbotek Anbotek	Components that have been previously tested to comply with the resistance to fire requirements in the IEC standard for the relevant component need not be retested provided the specified conditions are met	Anbotek Anbotek Anbotek Anbotek	Ρ
Anbor	If these conditions are not satisfied, the component is tested as part of the appliance.	otek Anborek Anborek	Р
botek A	Power electronic converter circuits not required to comply with IEC 62477-1, they are tested as part of the appliance	Anbotek Anbotek Anbo	Ν
Anbotek Anbotek	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 Anbotek Anbotek Anbotek	Ζ
ek Anbo Rotek Ar	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	anbotek Anbor An Anbotek Anbotek Anbot hotek Anbotek An	Р
Anbotek Anbotek	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 Anbotek Anbotek Anbotek	Ν
otek Anbor nbotek	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	Anbotek	N
Anbotek Anbote	No additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of IEC 60320-1 and IEC 60309	nok Anbotek Anbotek Notek Anbotek Anbotek	Ν
24.1.1	Capacitors likely to be permanently subjected to the supply voltage and used for radio interference suppression or for voltage dividing, comply with IEC 60384-14	botek Anbo. Ai	Ν
Anbotek	If the capacitors have to be tested, they are tested according to Annex F	ek Anbotek Anbotek	Ν
24.1.2	Transformers in associated switch mode power supplies comply with Annex BB of IEC 61558-2-16	botek Anbotek Anbotek	Ν
nbotek p	Safety isolating transformers comply with IEC 61558-2-6	Anbotek Anbotek Anbo	Ν
Anbote.	If they have to be tested, they are tested according to Annex G	Anbotek Anbotek	Ν
24.1.3	Switches comply with IEC 61058-1, the number of cycles of operation being at least 10 000	htek Anbotek Anbotek	Р

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abotel	IEC 6033	5-1 An	tek abotek Anbo	Per.
Clause	Requirement + Test	Ant	Result - Remark	Verdict
botek A	If they have to be tested, they are tested according to Annex H		Anbotek Anbotek Anbotek A	N
Anborek	If the switch operates a relay or contactor, the complete switching system is subjected to the test		Anbotek Anbotek	N
Anboten ak Anbo	If the switch only operates a motor staring relay complying with IEC 60730-2-10 with the number of cycles of a least 10 000 as specified, the complete switching system need not be tested		otek Anbotek Anbotek Nbotek Anbotek Anbotek Nbotek Anbotek Anbotek	N
24.1.4	.4 Automatic controls comply with IEC 60730-1 with the relevant part 2. The number o cycles of operation being at least:			
abotek	- thermostats:	10 000	abotek Anbota	N
hotek	- temperature limiters:	1 000	ek abotek Anboton	N
k ho	- self-resetting thermal cut-outs:	300	ok botek Anboter	Ν
otek An	- voltage maintained non-self-resetting thermal cut-outs:	1 000	anbotek Anbotek Anbo	N
botek	- other non-self-resetting thermal cut-outs:	30	abotek Anbote An	N
botek	- timers:	3 000	hotek Anboten	N
pro hotek	- energy regulators:	10 000	k hotek Anbotet	N
Ann Anborr	The number of cycles for controls operating clause 11 need not be declared, if the applia meets the requirements of this standard whe are short-circuited	ance	ootek Anbotek Anbotek	N
Anbotek	Thermal motor protectors are tested in combination with their motor under the conditions specified in Annex D		N	
Anboter Anbote tek Anb	For water valves containing live parts and that are incorporated in external hoses for connection of an appliance to the water mains, the degree of protection declared for subclause 6.5.2 of IEC 60730-2-8 is IPX7		N	
Anbotek P	Thermal cut-outs of the capillary type compl the requirements for type 2.K controls in IEC 60730-2-9		Anbotek Anbotek A	N
24.1.5	Appliance couplers comply with IEC 60320-	1 hot	K Anboten Anbo	N
Anbotel ek Anbr	However, for class II appliances classified higher than IPX0, the appliance couplers comply with IEC 60320-2-3		N	
potek A	Interconnection couplers comply with IEC 60320-2- 2		N	
24.1.6	Small lamp holders similar to E10 lamphold comply with IEC 60238, the requirements fo lampholders being applicable		Anborek Anborek	N

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aboter	IEC 60335-1	atek unboten And	
Clause	Requirement + Test	Result - Remark	Verdict
24.1.7	For remote operation of the appliance via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is IEC 62151	Anbotek Anbotek Anbotek Anbotek	N
24.1.8	The relevant standard for thermal links is IEC 60691	htek Anbotek Anboten	Ν
otek Anbo	Thermal links not complying with IEC 60691 are considered to be an intentionally weak part for the purposes of Clause 19	Anbotek Anbotek Anbotek Anbot	N
24.1.9	Contactors and relays, other than motor starting relays, tested as part of the appliance	Anbotek Anbotek	Ν
Anbo Anbotek Anbot	They are also tested in accordance with Clause 17 of IEC 60730-1, the number of cycles of operations in 24.1.4 selected according to the contactor or relay function in the appliance	botek Anbotek Anbotek	A'N Anb
24.2	Appliances not fitted with:	anbotek Anbote Ant	Р
nbotek	- switches, automatic controls or power supplies in flexible cords	Anbotek Anbotek An	Ρ
Anbotek Anbotek	- devices causing the protective device in the fixed wiring to operate in the event of a fault in the appliance	ek Anbotek Anbotek	Ρ
tek anb	- thermal cut-outs that can be reset by soldering, unless	potek Anbotek Anbotek	Ρ
stek	the solder has a melding point of at least 230 °C	And stek unbotek And	Р
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 Anbotek Anbotek Anbotek Anbotek	N
24.4	Plugs and socket-outlets for extra-low voltage circuits and heating elements, not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1 or with connectors and appliance inlets complying with the standard sheets of IEC 60320-1	Anbotek A	Ν
24.5	Capacitors in auxiliary windings of motors marked with their rated voltage and capacitance, and used accordingly	otek Anbotek Anbotek	N
en Anbi Dotek Ar	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 Anbo	Ν
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	tek Anbotek Anbotek	N

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protote	IEC 60335-1	stek anbote. Anu	
Clause	Requirement + Test	Result - Remark	Verdic
otek p	In addition, the motors comply with the requirements of Annex I	Anbotek Anbotek Anbo	N
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770	Anbotek Anbotek	N
Anboteh	They are supplied with the appliance	Nek unbotek Anboursek	N
k Anbo	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set	anbotek Anbotek Anbotek Anbot	N
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 An	N
Anbo	One or more of the following conditions are to be me	et: Anbu tek sobotek	N
tek Anbo	- the capacitors are of class S2 or S3 according to IEC 60252-1	unbotek Anbor Anbort	N
botek	- the capacitors are housed within a metallic or ceramic enclosure	Anti- Anbotek Anbotek An	N
Anboten	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm	Anbotek Anbotek	N
Anto	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E	ootek Anbotek Anbotek	N
	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695- 11-10	Anbotek Anbotek Anb	N
25	SUPPLY CONNECTION AND EXTERNAL FLEXIB	LE CORDS	
25.1 Anbotek	Appliance not intended for permanent connection to connection to the supply:	fixed wiring, means for	
Anbon k Ant	- 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	botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Р
	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or	Anbotek Anbotek A	N
And	- pins for insertion into socket-outlets	er Anbt stek anbotek	Р
25.2 Anbo	Appliance not provided with more than one means of connection to the supply mains	obtek Anbotek Anbotek	Р
	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 Anbo Anbotek Anbotek An k Mbotek Anbotek	N
5.3 Anbotek	Appliance intended to be permanently connected to of the following means for connection to the supply		N

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Part Parbur	IEC 60335-1	Dearth Daniel M	1/ P
Clause	Requirement + Test	Result - Remark	Verdic
otek p	- a set of terminals allowing the connection of a flexible cord	Anbotek Anbotek Anbo	N
Inport	- a fitted supply cord	Anbore An-	N
Anbote	- a set of supply leads accommodated in a suitable compartment	tek upotek Anbotek	N
htek Anbrak	- 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	N
Anbotek Anbotek Anbotek	- a set of terminals and cable entries, conduit entries, knock-outs or glands, allowing connection of appropriate types of cable or conduit, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support	Anbotek Anbotek Anbotek botek Anbotek Anbotek botek Anbotek Anbotek	N
potek Anbotek	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	Anbo Anbotek Anbotek Anbotek Anbotek Anbotek	N
25.4 photo	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to table 10 (mm):	potek Anbotek Anbote	Ν
potek	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in clause 29	Anbotek Anbotek Anb	N
5.5	Method for assembling the supply cord to the applia	nce: http://www.nipoten	
And	- type X attachment	Anbo otek Anbotek	N
AUPO	- type Y attachment	boten. Anboutek unbotel	Р
w Pup	- type Z attachment, if allowed in relevant part 2	Anbotek Anbo, tek abr	N
Anbotek	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords	Anbotek Anbotek An	N
Anboten Anbote	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	ek Anbotek Anbotek Anbotek	N
5.6	Plugs fitted with only one flexible cord	Anbo tek abotek Anbo	Р
5.7	Supply cords, other than for class III appliances, bei	ng one of the following types:	
nbotter y	- rubber sheathed (at least 60245 IEC 53)	Anbors And Lotek	N
Anboten	- polychloroprene sheathed (at least 60245 IEC 57)	Anboien Anbo	N
Anborot	 polyvinyl chloride sheathed. Not used if they are lik a temperature rise exceeding 75 K during the test of 		

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• light polyvinyl chloride sheathed cord (60227 IEC 52), for appliances not exceeding 3 kg N • ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances P • heat resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg N • heat-resistant polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg N • heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances N • heat-resistant polyvinyl chloride sheathed cord (60227 IEC 101) for circular cable and (62821 IEC 101) for circular cable and (62821 IEC 101) for circular cable N • Notified cable (62821 IEC 102) for circular cable cable (62821 IEC 102) for circular cable and cores-sectional area of supply cords of class III appliances that contain live parts N 25.8 Nominal cross-sectional area (mm ³). P 25.9 Supply cords not in contact with sharp points or edges. P 25.10 Supply cord of class 1 appliances have a green/yellow core for earthing <t< th=""><th>pabot</th><th>IEC 60335-1</th><th>otek Anbote Ant</th><th></th></t<>	pabot	IEC 60335-1	otek Anbote Ant	
(60227 EC 52), for appliances not exceeding 3 kg P • ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances P • heat resistant polyvinyl chloride sheathed. Not used for type X attachment other than specially prepared cords N • heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg N • heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances N • heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances N • halogen-free, low smoke, thermoplastic insulated and sheathed N • light duty halogen-free low smoke flexible cable (62821 IEC 101) for circular cable and (62821 IEC 101) for circular cable and (62821 IEC 102) for circular acable and (62821 IEC 102) for circular cable and (62821 IEC 1	Clause	Requirement + Test	Result - Remark	Verdict
(60227 IEC 53), for other appliances	potek Anbotek	(60227 IEC 52), for appliances not	Anbotek Anbotek Anbotek An	N
than specially prepared cords N + heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg N - halogen-free, low smoke, thermoplastic insulated and sheathed cord (60227 IEC 57), for other appliances N - halogen-free, low smoke, thermoplastic insulated and sheathed N - halogen-free, low smoke, thermoplastic insulated and sheathed N - halogen-free, low smoke, thermoplastic insulated and sheathed N - halogen-free, low smoke flexible cable (62821 IEC 101) for circular cable and (62821 IEC 1020) for circular cable and (62821 IEC 1020) for circular cable	Anbotek		Anbotek Anbotek	Р
sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg N • heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances N • halogen-free, low smoke, thermoplastic insulated and sheathed N • light duty halogen-free low smoke flexible cable (62821 IEC 101) for circular cable and (62821 IEC 101) for circular cable and (62821 IEC 102) for circular cable and (52821 IEC 102) for circular cable and sate of supply cords of class III appliances that contain live parts N 25.8 Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm ⁹) P 25.10 Supply cord of class I appliances have a green/yellow core for earthing P 25.10 Supply cord of class I appliances have a green/yellow core for earthing N Where additional neutral conductors are provided in the supply cord: N - other colours may be used for these additional neutral conductors; are identified by marking using th	K Aup		d for type X attachment other	Ν
cord (60227 IEC 57), for other appliances - halogen-free, low smoke, thermoplastic insulated and sheathed N - light duty halogen-free low smoke flexible cable (62821 IEC 101f) for circular cable and (62821 IEC 101f) for flat cable N - Ordinary duty halogen-free low smoke flexible cable (62821 IEC 102f) for circular cable and (62821 IEC 102f) for circular cable and (62821 IEC 102f) for flat cable N Supply cords for class III appliances adequately insulated N Test with 500 V for 2 min for supply cords of class III appliances that contain live parts N 25.8 Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm ²) P 25.9 Supply cord of class I appliances have a green/yellow core for earthing P In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue N Where additional neutral conductors are provided in the supply cord: N - other colours may be used for these additional neutral conductors; are identified by marking using the alpha numeric notation specified in IEC 60445 N - the supply cord is fitted to the appliance N 25.11 Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless N	otek p	sheathed cord (60227 IEC 56), for	Anbotek Anbotek Ando	Ν
• Iight duty halogen-free low smoke flexible cable (62821 IEC 101) for circular cable and (62821 IEC 101f) for flat cable N • Ordinary duty halogen-free low smoke flexible cable (62821 IEC 102f) for flat cable N • Ordinary duty halogen-free low smoke flexible cable (62821 IEC 102f) for circular cable and (62821 IEC 102f) for flat cable N Supply cords for class III appliances adequately insulated N Test with 500 V for 2 min for supply cords of class III appliances that contain live parts N 25.8 Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm ²) P 25.9 Supply cord of class I appliances have a green/yellow core for earthing P 25.10 Supply cord of class I appliances have a green/yellow core for earthing N Where additional neutral conductors are provided in the supply cord: N - other colours may be used for these additional neutral conductors; N - all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 N 25.11 Conductor of signely cords not consolidated by soldering where they are subject to contact pressure, unless N	Anbotek		Anbotek Anbotek	Ν
cable (62821 IEC 101) for circular cable and (62821 IEC 101f) for flat cable N • Ordinary duty halogen-free low smoke flexible cable (62821 IEC 102) for circular cable and (62821 IEC 102) for circular cable and (62821 IEC 102) for circular cable and (62821 IEC 102) for flat cable N Supply cords for class III appliances adequately insulated N Test with 500 V for 2 min for supply cords of class III appliances that contain live parts N 25.8 Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm²) P 25.9 Supply cord of class I appliances have a green/yellow core for earthing P In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue N Where additional neutral conductors are provided in the supply cord: N - other colours may be used for these additional neutral conductors; N - all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 N - the supply cord is fitted to the appliance N 25.11 Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless N	Aupo	- halogen-free, low smoke, thermoplastic insulated a	and sheathed	Ν
flexible cable (62821 IEC 102) for circular cable and (62821 IEC 102f(for flat cable N Supply cords for class III appliances adequately insulated N Test with 500 V for 2 min for supply cords of class III appliances that contain live parts N 25.8 Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm ²): P 25.9 Supply cords not in contact with sharp points or edges P 25.10 Supply cord of class I appliances have a green/yellow core for earthing P In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue N Where additional neutral conductors are provided in the supply cord: N - other colours may be used for these additional neutral conductors; N - all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 N - the supply cord is fitted to the appliance N 25.11 Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless N	otek A	cable (62821 IEC 101) for circular cable	Anbotek Anbotek Anbot	Ν
insulated Insulated Test with 500 V for 2 min for supply cords of class III appliances that contain live parts N 25.8 Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm²): P 25.9 Supply cords not in contact with sharp points or edges P 25.10 Supply cord of class I appliances have a green/yellow core for earthing P In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue N Where additional neutral conductors are provided in the supply cord: N - other colours may be used for these additional neutral conductors; N - all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 N - the supply cord is fitted to the appliance N 25.11 Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless N	Anbotek	flexible cable (62821 IEC 102) for circular	Anborek Anborek	Ν
III appliances that contain live parts 25.8 Nominal cross-sectional area of supply cords not less than table 11; rated current (A); cross-sectional area (mm ²) P 25.9 Supply cords not in contact with sharp points or edges P 25.10 Supply cord of class I appliances have a green/yellow core for earthing P 25.10 Supply cord of class I appliances have a green/yellow core for earthing N Vhere additional neutral conductors are provided in the supply cord: N - other colours may be used for these additional neutral conductors; N - all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 N 25.11 Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless N	Anbo		ek Anbotek Anbotek	Ν
less than table 11; rated current (A); cross-sectional area (mm²) P 25.9 Supply cords not in contact with sharp points or edges P 25.10 Supply cord of class I appliances have a green/yellow core for earthing P In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue N Where additional neutral conductors are provided in the supply cord: N - other colours may be used for these additional neutral conductors; N - all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 N 25.11 Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless N	tek pr		Anbotek Anbotek Anbot	Ν
edges 25.10 Supply cord of class I appliances have a green/yellow core for earthing P In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue N Where additional neutral conductors are provided in the supply cord: N - other colours may be used for these additional neutral conductors; N - all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 N - the supply cord is fitted to the appliance N 25.11 Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless N	25.8	less than table 11; rated current (A); cross-sectional	Anbotek Anbotek	Р
green/yellow core for earthing In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue N Where additional neutral conductors are provided in the supply cord: N - other colours may be used for these additional neutral conductors; N - all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 N - the supply cord is fitted to the appliance N 25.11 Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless N	25.9		ek Anbotek Anbotek	Р
conductor of the supply cord is blue N Where additional neutral conductors are provided in the supply cord: N - other colours may be used for these additional neutral conductors; N - all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 N - the supply cord is fitted to the appliance N 25.11 Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless N	25.10		unbotek Anbotek Anbote	Р
- other colours may be used for these additional neutral conductors; N - all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 N - the supply cord is fitted to the appliance N 25.11 Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless N	ootek otek		Anborek Anbor An	Ν
neutral conductors; – all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445 N – the supply cord is fitted to the appliance N 25.11 Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless N	And	Where additional neutral conductors are provided in	the supply cord:	Ν
are identified by marking using the alpha numeric notation specified in IEC 60445 Image: Constant of the appliance of the appliance of the appliance of the apply cords not consolidated by soldering where they are subject to contact pressure, unless N	Anbor		otek Anbotek Anbotek	N
25.11 Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless	otek Ant	are identified by marking using the alpha numeric	Inbotek Anbotek Anbotek Anbo	Ν
soldering where they are subject to contact pressure, unless	notek	- the supply cord is fitted to the appliance	Ann hotek Anboten Ar	Ν
the contact proceure is provided by apring terminale	25.11	soldering where they are subject to contact	Antotek Anbotek	N
The contact pressure is provided by spring terminals N	Pion	the contact pressure is provided by spring terminals	bit hat otek habotek	N

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lause	Requirement + Test	Result - Remark	Verdic
e brigi	ak botek Anboit All stek	Anboren Ando ek ub	Net.
5.12	Insulation of the supply cord not damaged when moulding the cord to part of the enclosure	Anbotek Anbotek An	N
5.13	Inlet openings so constructed as to prevent damage to the supply cord	Anbotek Anbotek	N
Anbotek Anbo	If it is not evident that the supply cord can be introduced without risk of damage, a non- detachable lining or bushing complying with 29.3 for supplementary insulation provided	otek Anbotek Anbotek Nbotek Anbotek Anbotek Nbotek Anbotek Anbotek	N
botek	If unsheathed supply cord, a similar additional bushing or lining is required, unless the appliance is	Anbortek Anbortek An	N
abotek	class 0, or	abotek Anbort	N
hotek	a class III appliance not containing live parts	ak abotek Anboten	N
5.14	Supply cords moved while in operation adequately protected against excessive flexing	botek Anbotek Anbotek	N
lek An	Flexing test, as described:	abotek Anborn An	N
botek	- applied force (N)	An Anboien An	N
hotek	- number of flexings	hotek Anboren	N
And wotek	The test does not result in:	k sotek Anbotek	N
Anto Anbott	- short-circuit between the conductors, such that the current exceeds a value of twice the rated current	ootek Anbotek Anbotek Anbote	N
potek	- breakage of more than 10% of the strands of any conductor	Anbotek Anbotek Ant	N
nbotek	- separation of the conductor from its terminal	Anbotek Anbo	N
abotek	- loosening of any cord guard	ok abotek Anbot	N
h. bote	- damage to the cord or the cord guard	lek botek Anbote	N
k Aup	- broken strands piercing the insulation and becoming accessible	nbotek Anbotek Anbote	N
5.15	For appliances with supply cord and appliances to be permanently connected to fixed wiring by a flexible cord, conductors of the supply cord relieved from strain, twisting and abrasion by use of cord anchorage	Anbotek Anbotek Anbotek Anbotek	N
Anboto Anbr	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of the appliance can be damaged	otek Anbore Ant	N
ptek A	Pull and torque test of supply cord:	Anbotek Anbo	N
nbotek	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm):	Anbotek Anbotek	N
Anbou	- other appliances: values shown in table 12: mass (kg); pull (N); torque (not on automatic cord reel)	Anbo ek abotek	N

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anbore	IEC 60335-1	otek prote Ant	
Clause	Requirement + Test	Result - Remark	Verdic
br.	stek poboten Andrew botek	Anboir Ali tek obo	1er
	Cord not damaged and max. 2 mm displacement of the cord	Anborek Anborek A	N
25.16	Cord anchorages for type X attachments constructe	d and located so that:	N
Anbo	- replacement of the cord is easily possible	Anbo tek nbotek	Ν
	- it is clear how the relief from strain and the prevention of twisting are obtained	otek Anborek Anborek	Ν
494	- they are suitable for different types of supply cord	Anborek Anborek Anbo	N
nbotek	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless	Anbotek Anbotek An	N
Anbotek	they are separated from accessible metal parts by supplementary insulation	Anbotek Anbo	Ν
Anbo	- the cord is not clamped by a metal screw which bears directly on the cord	hotek Anbotek Anbotek	N
tek pr	- at least one part of the cord anchorage securely fixed to the appliance, unless	Anbotek Anbotek Anbo	N
pole.	it is part of a specially prepared cord	Anbote, And And	N
Anboten	- screws which have to be operated when replacing the cord do not fix any other component, unless	Anboten Anb	N
Anbot	the appliance becomes inoperative or incomplete or the parts cannot be removed without a tool	pootek Anbotek Anbotek	N
ek An	- if labyrinths can be bypassed the test of 25.15 is nevertheless withstood	Anbotek Anbotek Anb	N
Anbotek	- for class 0, 0I and I appliances they are of insulating material or are provided with an insulating lining, unless	Anbotek Anbotek	N
Anbote	failure of the insulation of the cord does not make accessible metal parts live	notek Anbotek Anbotek	N
sk Anb	- for class II appliances they are of insulating material, or	Anbotek Anbotek Anbo	N
-botek	if of metal, they are insulated from accessible metal parts by supplementary insulation	Anbotek Anbotek A	N
Anbotek	After the test of 25.15, under the conditions specified, the conductors have not moved by more than 1 mm in the terminals	ek Anbotek Anboten etek Anbotek Anbotek	N
25.17	Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance	Anbotek Anbotek Anbote Knotek Anbotek Anbo	Р
25.18	Cord anchorages only accessible with the aid of a tool, or	Anbotek Anbotek Ar	Р
Anboten	Constructed so that the cord can only be fitted with the aid of a tool	ak Anbotek Anbotek	N
25.19	Type X attachment, glands not used as cord anchorage in portable appliances	otek unbotek Anbotek	N

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abote	IEC 60335-1	tek onboten Anbo	
Clause	Requirement + Test	Result - Remark	Verdic
Pri.	Lotek Anboten Anot tek abotek	Anbo' An hotek Anbo	Yer.
poten A	Tying the cord into a knot or tying the cord with string not used	Anbotek Anbotek Ar	N
25.20	The conductors of the supply cord for type Y and Z attachment insulated from accessible metal parts	Antorek Antorek	Р
25.21	Space for supply cord for type X attachment or for c constructed:	onnection of fixed wiring	N
otek Ar	 to permit checking of conductors with respect to correct positioning and connection before fitting any cover 	Anbotek Anbotek Anbotek Anbot	N
nbotek	- so there is no risk of damage to the conductors or their insulation when fitting the cover	Anbotek Anbotek	N
Anbotek	- 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	otek Anbotek Anbotek Anbotek Anbotek Anbotek	N
hotek An	2 N test to the conductor for portable appliances; no contact with accessible metal parts	Anbotek Anbotek Ant	N
25.22	Appliance inlets:	Ano otek Anboter.	Р
Anbotek	- live parts not accessible during insertion or removal	lek Anbotek Anbotek	Р
Anbot	Requirement not applicable to appliance inlets complying with IEC 60320-1	nootek Anbotek Anbo	Р
n bu	- connector can be inserted without difficulty	Anborn k hotek Anb	Р
poro	- the appliance is not supported by the connector	Anboron Ann stek	Р
Anbotek	- not for cold conditions if temp. rise of external metal parts exceeds 75 K during clause 11, unless	Anbotek Anbotek	N
Puro de	the supply cord is unlikely to touch such metal parts	te And otek Anbotek	N
25.23	Interconnection cords comply with the requirements	for the supply cord, except that:	N
potek p	- the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11	Anbotek Anbotek Anbotek Anbotek	N
Anbor	- the thickness of the insulation may be reduced	Anbone k hotek	N
Anboten Anbotel	- 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	ek Anbolek Anbolek Anbolek potek Anbolek Anbolek Anbolek	N
dek	If necessary, electric strength test of 16.3	kine stek subotek Anbo	N
25.24	Interconnection cords not detachable without the aid of a tool if compliance with this standard is impaired when they are disconnected	Anborek Anbotek Ar	N
25.25	Dimensions of pins that are inserted into socket- outlets compatible with the dimensions of the relevant socket-outlet.	otek Anbotek Anbotek	Ρ

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pabol	IEC 60335-1	lotek pubo, pr.	
Clause	Requirement + Test	Result - Remark	Verdic
unbotek	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083	Anbotek Anbotek Anbo	P
26	TERMINALS FOR EXTERNAL CONDUCTORS		
26.1 pho ¹⁶	Appliances provided with terminals or equally effective devices for connection of external conductors	obotek Anbotek Anbotek Anbotek	Р
otek	Terminals only accessible after removal of a non- detachable cover, except	Anbotek Anbotek Ano	N
nboth	for class III appliances that do not contain live parts	Anborn K Ans botek	N
Anbote	Earthing terminals may be accessible if a tool is required to make the connections and means are provided to clamp the wire independently from its connection	crek Anborek Anborek crek Anborek Anborek	N
26.2	Appliances with type X attachment and appliances for the connection of cables of fixed wiring provided with terminals in which connections are made by means of screws, nuts or similar devices, unless	Anbotek Anbotek Anbotek Anbo Anbotek Anbotek An	N
Aupon	the connections are soldered	Anboli An hotek	N
Anboro	Screws and nuts not used to fix any other component, except	blek Anbola Ano	N
rek Al	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors	Anbotek Anbotek Anbotek Anbotek	N
Anbotek	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless	Anbotek Anbotek	N
Anno Anbo ek Ar	barriers provided so that neither clearances nor creepage distances between live parts and other metal parts reduced below the values for supplementary insulation if the conductor becomes free at the soldered joint	botek Anbotek Anbotek Anbotek Anbotek Anbote Anbotek Anbotek Anbote	N
26.3	Terminals for type X attachment and for connection of cables of fixed wiring so constructed that the conductor is clamped between metal surfaces with sufficient contact pressure but without damaging the conductor	Anbotek Anbotek Anbotek Anbotek	N
14	Terminals fixed so that when the clamping means is	tightened or loosened:	N
404	- the terminal does not become loose	knbor Au	N
- A	- internal wiring is not subjected to stress	Anbour All hotek All	N
Anboten	- neither clearances nor creepage distances are reduced below the values in clause 29	Anbotek Anbotek	N

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Clause	Poquiromont L Toct	Result - Remark	Verdic
Jiause	Requirement + Test		veral
otek Ar	Compliance checked by inspection and by the test of subclause 9.6 of IEC 60999-1, the torque applied being equal to two-thirds of the torque specified (Nm)	Anbotek Anbotek Anbo	N
Ann	No deep or sharp indentations of the conductors	k sotek Anbotek	Ν
26.4	Terminals for type X attachment, except those having a specially prepared cord and those for the connection of cables of fixed wiring, no special preparation of conductors such as by soldering, use of cable lugs, eyelets or similar, and	nbotek Anbotek	N
Anbotek	so constructed or placed that conductors prevented from slipping out when clamping screws or nuts are tightened	Anbotek Anbotek	Ν
26.5	Terminals for type X attachment so located or shielded that if a wire of a stranded conductor escapes, no risk of accidental connection to other parts that result in a hazard	botek Anbotek Anboten Anbotek Anbotek Anbot	N
npotek	Stranded conductor test, 8 mm insulation removed	anbotek Anbo	Ν
Anbotek	No contact between live parts and accessible metal parts and,	Anbotek Anbotek	Ν
Anbote	for class II constructions, between live parts and metal parts separated from accessible metal parts by supplementary insulation only	on Anborek Anborek Anborek	Ν
26.6	Terminals for type X attachment and for connection of cables of fixed wiring suitable for connection of conductors with cross-sectional area according to table 13; rated current (A); nominal cross-sectional area (mm ²)	Anbotek Anbotek Anbotek Anbotek	N
Ant	If a specially prepared cord is used, terminals need only be suitable for that cord	otek Anbotek Anbotek	Ν
26.7	Terminals for type X attachment, except in class III appliances not containing live parts, accessible after removal of a cover or part of the enclosure	Anbotek Anbotek Anb	Ν
26.8	Terminals for the connection of fixed wiring, including the earthing terminal, located close to each other	Anbotek Anbotek Anbotek	Ν
26.9	Terminals of the pillar type constructed and located as specified	otek Anbolek Anbo	Ν
26.10	Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless	hotek Anbotek Anbo	Ν
Anbotek	conductors ends fitted with means suitable for screw terminals	Anbotek Anbotek Ar	Ν
Anbore	Pull test of 5 N to the connection	Anbore Ann Ann	Ν
26.11	For type Y and Z attachment, soldered, welded, crimped or similar connections may be used	otek Anbotek Anbotek	Р

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poto	IEC 60335-1	stek unboter And	
Clause	Requirement + Test	Result - Remark	Verdict
botek Anbotek	For Class II appliances, the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone	Anbotek Anbotek Anbotek An	N
Anbotek Anbotek ek Anb	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	hotek Anbotek Anbotek hotek Anbotek Anbotek hotek Anbotek Anbotek	N
27	PROVISION FOR EARTHING		
27.1	Accessible metal parts of Class 0I and I appliances permanently and reliably connected to an earthing terminal or earthing contact of the appliance inlet	Anbotek Anbotek	Р
an Aupo	Earthing terminals and earthing contacts not connected to the neutral terminal	botek Anbotek Anboten	Р
otek A	Class 0, II and III appliances have no provision for protective earthing	Anbotek Anbotek An	Ν
nborek	Class II appliances and class III appliances can incorporate an earth for functional purposes	Anboro Anborek	Ν
abotek	Safety extra-low voltage circuits not earthed, unless	ek abotek Anboten k	Ν
4	protective extra-low voltage circuits	ek botek Anboton	Ν
27.2	Clamping means of earthing terminals adequately secured against accidental loosening	Anbotek Anbotek Anbote	Р
Anbotek	Terminals for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm ² , and	Anbotek Anbotek Anbotek	N
Anbotek	- do not provide earthing continuity between different parts of the appliance, and	ok Anbotek Anbo	N
tek An	- conductors cannot be loosened without the aid of a tool	botek Aribotek Aribote	N
botek Anbotek	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	Anbotek Anbotek Anbotek A	Ν
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	ek Anbotek Anbotek otek Anbotek Anbotek obotek Anbotek Anbotek	Ρ
hotek I	For appliances with supply cords, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage	Anbotek Anbote And	N
Anbotek	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	Anbotek Anbotek	Ν

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Nouse	IEC 60335-1	Result - Remark	\/o
Clause	Requirement + Test	Result - Remark	Verdict
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	Anbotek Anbotek Anbotek A	Р
Anbotek Anbotek	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion	htek Anbotek Anbotek	Р
Anbo	If of steel, these parts provided with an electroplated coating with a thickness at least 5 µm	hotek Anborek Anbo	N
nbotek	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure	Anborek Anborek An	N
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	tek Anbotek Anbotek	N
tek Ant	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	Anbotek Anbotek Anbot	N
27.5	Low resistance of connection between earthing terminal and earthed metal parts	Anborek Anborek	Р
Anbotek Anbote ek Anb	This requirement does not apply to connections providing earthing continuity in the protective extra- low voltage circuit, provided the clearances of basic insulation are based on the rated voltage of the appliance	potek Anbotek Anbotek Dotek Anbotek Anbotek Anbotek Anbotek Anbote	N
Anbotek	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	Anbotek Anbotek An	N
Anbotek	Resistance not exceeding 0,1 Ω at the specified low-resistance test (Ω)	43mΩ	Р
27.6	The printed conductors of printed circuit boards not used to provide earthing continuity in hand-held appliances.	Anbotek Anbotek Anbotek Anbote	N
Anbotek Anbotek	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 A Anbotek Anbotek A	N
Anbotek Anbo	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	otek Anbotek Anbotek	N
28	SCREWS AND CONNECTIONS		
28.1	Fixings, electrical connections and connections providing earthing continuity withstand mechanical stresses	Anbotek Anbotek A	Р
Anbotek	Screws not of soft metal liable to creep, such as zinc or aluminium	hek Anbotek Anbotek	Р

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lause		LO ^R	
lause	Requirement + Test	Result - Remark	Verdict
otek l	Diameter of screws of insulating material min. 3 mm	Anbotek Anbotek Anbo	N
Anbotek	Screws of insulating material not used for any electrical connections or connections providing earthing continuity	botek Anbotek Anbotek	N
And	Screws used for electrical connections or connections providing earthing continuity screwe into metal	ed anbotek Anbotek Anbotek Anbotek	N
botek	Screws not of insulating material if their replacement by a metal screw can impair supplementary or reinforced insulation	ek Anbotek Anbotek Ar	N
Anbo Anbotek Anbo	For type X attachment, screws to be removed for replacement of supply cord or for user maintenance, not of insulating material if their replacement by a metal screw impairs basic insulation	Anbotek	N
	For screws and nuts; torque-test as specified in table 14	(see appended table)	Р
8.2 del	Electrical connections and connections providing earthing continuity constructed so that contact pressure is not transmitted through non-ceramic insulating material liable to shrink or distort, unless	holek Anbotek Anboten	Р
atek An	there is resiliency in the metallic parts to compensate for shrinkage or distortion of the insulating material	Anbotek Anbotek Anbotek	N
Inbotek	This requirement does not apply to electrical con for which:	inections in circuits of appliances	N
Anbotek	30.2.2 is applicable and that carry a current not exceeding 0,5 A	ent Andores Andores Andores	N
Ano	30.2.3 is applicable and that carry a current not exceeding 0,2 A	enti otek Anbotek Anbotek	N
8.3	Space-threaded (sheet metal) screws only used electrical connections if they clamp the parts together	for Andorek Andorek Andorek Andorek	N
Anbotek Anbote	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections they generate a full form standard machine screw thread		N
tek P	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer	Anbotek Anbotek Anbo	N
	Di' IS' OF	ok bon bin	N
Anbotek	Thread-cutting, thread rolling and space threaded connections providing earthing continuity provide connection:		N

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Clause	Requirement + Test	Result - Remark	Verdic
in bur	at hotelt Anbote Ant	Anboiek Anbo h	Net
otek	- during user maintenance,	Anbotek Anbote And	N
Inbotek	- when replacing a supply cord having a type X attachment, or	Anbotek Anboit A	N
	- during installation	e Anbo tek obotek	N
Anbor	At least two screws being used for each connection providing earthing continuity, unless	obtek Anborek Anborek	N
otek p	the screw forms a thread having a length of at least half the diameter of the screw	Anbotek Anbotek Anbo	N
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity	Anbotek Anbo Anbotek Anbotek Anbotek Anbotek	N
Anbc	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or	hibotek Anbotek Anbote	N
tek A	if an alternative earthing circuit is provided	abotek Anbot Att	N
Anbotek Anbotek	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion	Anbotek Anbotek Anbotek An	N
29	CLEARANCES, CREEPAGE DISTANCES AND SO	OLID INSULATION	
ek an	Clearances, creepage distances and solid insulation withstand electrical stress	nootek Anbotek Anbot	Р
potek obotek	For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), Annex J applies	Annotek Anbotek Anto	nboten note
Anbotek	The microenvironment is pollution degree 1 under type 1 protection	tek Anbotek Anbotek	N
Anbor ak Ant	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 Anbotek Anbotek Anbotek	N
Anbotek	These values apply to functional, basic, supplementary and reinforced insulation:	Anbotek Anbotek	N
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)	Р
otek	for basic insulation and functional insulation they comply with the impulse voltage test of clause 14	Anbotek Anbotek Anbo	N
Anbotek Anbotek	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	Anbotek Anbotek Anbotek	N

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lause	Requirement + Test	Result - Remark	Verdict
K. P.C.D.	-k hotek Anbote Ant	anbotek probo h.	Net.
nbotek A	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	Anbotek Anbotek An Anbotek Anbotek A	N
Ann hotek	Impulse voltage test is not applicable:	An botek Anboten	N
Anbo	- when the microenvironment is pollution degree 3, or	botek Anbotek Anbotek	N
stek Ar	- for basic insulation of class 0 and class 01 appliances, or	Anbotek Anbotek And	N
nbotek	- to appliances intended for use at altitudes exceeding 2 000 m	Anboliek Anbolek	N
botek	Appliances are in overvoltage category II	ak sbotek Anboten	Р
Anbot	A force of 2 N is applied to bare conductors, other than heating elements	botek Anbotek Anbote	Р
tek An	A force of 30 N is applied to accessible surfaces	abotek Anbots And	Р
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage	Anbotek Anbotek An	Р
Anbotek	The values of table 16 or the impulse voltage test of clause 14 are applicable	(see appended table)	Р
ek Ant	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1,0 mm if the microenvironment is pollution degree 1	Anbotek Anbotek Anbotek	N
obotek	Lacquered conductors of windings considered to be bare conductors	Anborak Anborek	Р
29.1.2	Clearances of supplementary insulation not less than those specified for basic insulation in table 16:	(see appended table)	Р
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)	Р
Anbotek Anbotek Anbotek	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	Anbotek Anbotek Anbotek A Anbotek Anbotek Anbotek	N
29.1.4	Clearances for functional insulation are the largest v	alues determined from:	Р
Nek	- table 16 based on the rated impulse voltage :	(see appended table)	Р
nbotek	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz	Anbotek Anbotek Ar	Р
Anbotek	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz	Anbotek Anbotek	N
PUD	If values of table 16 are largest, the impulse voltage	oter And Lek abotek	N

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Clause	Requirement + Test	Result - Remark	Verdic
SK BUK	k woten Anbote And	aboten propo	tet
otek	the microenvironment is pollution degree 3, or	anbotek Anboter Anb	N
Anbotek	the distances can be affected by wear, distortion, movement of the parts or during assembly	Anbotek Anbotek A	N
Anbote	However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited	otek Anbotek Anbotek	N
otek A	Lacquered conductors of windings considered to be bare conductors	nbotek Anbotek Anbo	N
nbotek	However, clearances at crossover points are not measured	Anbotek Anbotek Ar	N
Anboro	Clearance between surfaces of PTC heating elements may be reduced to 1mm	Anboitek Anbotek	N
29.1.5	Appliances having higher working voltages than rate insulation are the largest values determined from:	d voltage, clearances for basic	N
stek A	- table 16 based on the rated impulse voltage :	abotek Anborn An	N
nbotek ok	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz	Anbotek Anboten An	N
Anborek	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz	ek anbotek Anbotek	N
tek Anboi	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	ootek Anbotek Anbote Anbotek Anbotek Anbote Anbotek Anbotek Anb	N
Anbotek 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	otek Anbotek Anbotek	N
ak An Dotek	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N
Anto Anbotek Anbote k Anbote	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 Anbotek Anbotek Anbotek	N
Anbotek	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 A	N

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Prior	IEC 60335-1	Inter Party inter	
Clause	Requirement + Test	Result - Remark	Verdict
Pr.	otek mbote. And at stotek	anbo. h. tek anbo	No.
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)	Ρ
Anboten	Pollution degree 2 applies, unless	Anboten Ando	Р
Anboten	 precautions taken to protect the insulation; pollution degree 1 	otek Anbotek Anbotek	Ν
otek An	 insulation subjected to conductive pollution; pollution degree 3 	nbotek Anbotek Anbo	Ν
nbotek	A force of 2 N is applied to bare conductors, other than heating elements	Anbotek Anbotek An	Ρ
Anboron	A force of 30 N is applied to accessible surfaces	Anboren Anthone K	Р
Anbote. Anbot	In a double insulation system, the working voltage for both the basic and supplementary insulation is taken as the working voltage across the complete double insulation system	tek Anbotek And botek Anbotek Anbotek ntek Anbotek Anbot	N
29.2.1	Creepage distances of basic insulation not less than specified in table 17	(see appended table)	Ρ
Anbotek Anbotek Anbote	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 potek Anbotek Anbotek	Ν
botek Anbotek	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	Anbotek Anbotek Anb	N
29.2.2	Creepage distances of supplementary insulation at least those specified for basic insulation in table 17, or	(see appended table)	Р
and Aup	Table 2 of IEC 60664-4, as applicable	anbotek Anbour pu	N
29.2.3	Creepage distances of reinforced insulation at least double those specified for basic insulation in table 17, or	(see appended table)	Р
Anboten	Table 2 of IEC 60664-4, as applicable	k Anboten And	Ν
29.2.4	Creepage distances of functional insulation not less than specified in table 18	(see appended table)	Ρ
otek Ant	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	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Ν
Anbotek	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited	Anborek Anbotek Anbotek	Ν

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Clause	Requirement + Test	Result - Remark	Verdic
K Purk	-k hotek Anuote And tek	abotek Anbo A	Het.
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses	Anbotek Anbotek Anbotek A	Р
Anbotek	Compliance checked:	ek Anbotek Anboittek	Р
Anbote	- by measurement, in accordance with 29.3.1, or	otek Anbotek Anbo	Р
Anb	- by an electric strength test in accordance with 29.3.2, or	Anbotek Anbotek Anbo	N
ibotek	- 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 An	N
Anbotek	for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or	otek Anbotek Anbotek Motek Anbotek Anbotek	Р
ek Al	- 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 Anbotek	N
Anbotek	- 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	otek Anbotek Anbotek	N
29.3.1	Supplementary insulation have a thickness of at least 1 mm	Anbotek Anboten Anbo	Р
o ^{te}	Reinforced insulation have a thickness of at least 2 mm	Anbotek Anbotek	Р
9.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation	tek Anbotek Anbotek	N
k Anbor	Supplementary insulation consist of at least 2 layers	hbotek Anbotek Anbotek Anbotek	N
-alt	Reinforced insulation consist of at least 3 layers	Anbo, ek abotek Anb	N
9.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by	Anborek Anborek	N
abotek	the electric strength test of 16.3	ek obotek Anboten	N
Anbote	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	botek Anbotek Anbotek Anbotek	N
9.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in table 19	Anbotek Anbotek Anbo	Р
80	RESISTANCE TO HEAT AND FIRE		
30.1	External parts of non-metallic material,	Ant stek sabotek	Р
AUPOL	parts supporting live parts, and	and Anipo. An	Р

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IEC 60335-1

Clause	Requirement + Test	Result - Remark	Verdic
Pr.	Lotek Anboten Anbo	Anboit Alt Lotek Anbo	461
oten p	parts of thermoplastic material providing supplementary or reinforced insulation	Anbotek Anbotek A	Р
	sufficiently resistant to heat	And stek subotek	Р
Anbo	Ball-pressure test according to IEC 60695-10-2	Anbo ok sotek	Р
Anbore Anbore Stek A	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)	Р
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)	Р
Anbo hek An	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)	Р
30.2	Parts of non-metallic material resistant to ignition and spread of fire	Anbotek Anbotek	Р
An-	This requirement does not apply to:	Arr. ntek unboten	Р
And Anbot ek An	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	ootek Anbotek Anbotek	Ν
Anbotek	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance	Anbotek Anbot An Anbotek Anbotek	Ρ
	Compliance checked by the test of 30.2.1, and in addition:	ak Anbotek Anbo	Р
Ann	- for attended appliances, 30.2.2 applies	poter Ant stek unbote	Р
the Pup	- for unattended appliances, 30.2.3 applies	unboten And tek ab	N
oten l	For appliances for remote operation, 30.2.3 applies	unbotek Anboi At	Ν
unbotek _tek	For base material of printed circuit boards, 30.2.4 applies	Anbotek Anbotek	Р
30.2.1	Parts of non-metallic material subjected to the glow-wire test of IEC 60695-2-11 at 550°C	(see appended table 30.2)	Р
k Anbr	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	knbotek Anbotek Anbo	Ν
nbotek	the material is classified at least HB40 according to IEC 60695-11-10	Anbotek Anbotek A	Ν
Anborek	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF	tek Anbotek Anbotek	Ν

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Clause	Requirement + Test	Result - Remark	Verdic
w prin	ak bolet Anbore Ant	unborten Anbo rek	104
30.2.2	Appliances operated while attended, parts of non- metallic material supporting current-carrying connections, and	Anborek Anborek Ar	Ρ
Anboten	parts of non-metallic material within a distance of 3mm of such connections,	Anboten Anter	Ρ
Ano	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	(see appended table 30.2)	
tek p	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation	Anbotek Anbotek An	Ρ
100th ok	- 650 °C, for other connections	Anborn ak hotek	Ν
Anboth	Glow-wire applied to an interposed shielding material, if relevant	Anbottek Anbotek	Ν
Anbo	The glow-wire test is not carried out on parts of mate wire flammability index according to IEC 60695-2-12		Ν
rek A	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation	Anbotek Anbotek Ant	Ν
otek	- 650 °C, for other connections	And otek unbotek	Ν
Anbo	The glow-wire test is also not carried out on small pa	arts. These parts are to:	Ν
Anboi	- comprise material having a glow-wire flammability index of at least 750 °C, or 650 °C as appropriate, or	ontek Anborek Anborek	N
potek Ar	- comply with the needle-flame test of Annex E, or	(see appended table 30.2/30.2.4)	Ν
Anbotek	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10	Anbotek Anbotek	Ν
Anbor	Glow-wire test not applicable to conditions as specified	tek anborek Anborek	Ν
0.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2	anbotek Anbotek Anbot	Ν
otek	The tests are not applicable to conditions as specified:	Anbotek Anbo	Ν
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and	k Anbotek Anbotek	N
K Ant	parts of non-metallic material, other than small parts, within a distance of 3 mm,	obotek Anbotek Anbote	Ν
otek	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C	(see appended table 30.2)	Ν
nborotek	Glow-wire applied to an interposed shielding material, if relevant	Anbone Ano	Ν

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IEC 60335-1			· · · ·
Clause	Requirement + Test	Result - Remark	Verdict
potek A 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 Anbotek Anbotek Anbotek Anbotek	N
30.2.3.2	Parts of non-metallic material supporting connections, and	otek Anbotek Anbotek	N
k Aupo	parts of non-metallic material within a distance of 3mm,	anbotek Anbotek Anbot	Ν
unbotek A	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	(see appended table 30.2)	Ν
Anbotek	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation	Anbotek Anbotek	N
Aupon	- 650 °C, for other connections	otek Anboy tek potek	Ν
otek Anbo	Glow-wire applied to an interposed shielding material, if relevant	botek Anbotek Anbot	N
nbotek	However, the glow-wire test of 750 °C or 650 °C as on parts of material fulfilling both or either of the follo		Ν
Anboten	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:	Anbotek Anbotek	Ν
Anbot	• 775 °C, for connections carrying a current exceeding 0,2 A during normal operation	potek Anbotek Anboten	N
tek Ant	• 675 °C, for other connections	abotek Anbore An	Ν
botek rek	- a glow-wire flammability index according to IEC 60695-2-12 of at least:	Anbotek Anbotek Am	Ν
Anbon	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation	Anbotek Anbotek	N
nbote	- 650 °C, for other connections	stek unbotek Anbor	Ν
ek	The glow-wire test is also not carried out on small pa	arts. These parts are to:	Ν
botek p	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	Anbotek Anbotek Anb	N
Anbotek	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	ek Anbotek Anbotek	N
ak abi	- comply with the needle-flame test of Annex E, or	ek abotek Anboten	Ν
potek A	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10	Anbotek Anbotek Anbo	N
Anbotek Anbotek Anbotek	The consequential needle-flame test of Annex E appencroach within the vertical cylinder placed above the and on top of the non-metallic parts supporting curres parts of non-metallic material within a distance of 3 matrix are those:	ne centre of the connection zone ent-carrying connections, and	Ν

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Clause	Requirement + Test	Result - Remark	Verdic
Siddoo	notation internet		Veraio
anbotek	- parts that withstood the glow-wire test of IEC 60695-2-11 of 750 °C or 650 °C as appropriate, but produce a flame that persist longer than 2 s, or	Anbotek Anbotek Anbotek A	N
Anbotek	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	otek Anbotek Anbotek	N
stek Anbr	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	nbotek Anbotek Anbo	N
nbotek	- small parts for which the needle-flame test of Annex E was applied, or	Anbotek Anbotek	N
Anbotek	- small parts for which a material classification of V- 0 or V-1 was applied	tek Anbotek Anbotek	N
Anbo	However, the consequential needle-flame test is not parts, including small parts, within the cylinder that a		Ν
ibotek Al	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	Anborek Anborek An	N
Anbotek	- parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or	Anbotek Anbotek	N
Anbo Anbo	- 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	ontek Anborek Anborek Anborek	N
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
Anbor	Test not applicable to conditions as specified	Anborn An Lotek	N
31	RESISTANCE TO RUSTING		
Anbot	Relevant ferrous parts adequately protected against rusting	potek Anbote Ano	Р
e. Bu,	Tests specified in part 2 when necessary	anboth And antek ant	N
32	RADIATION, TOXICITY AND SIMILAR HAZARDS		
Anbotek Anbotek	Appliance does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use	Anbotek Anbotek Anbotek Anbotek	Р
Anbor	Compliance is checked by the limits or tests specified in part 2, if relevant	otek Anbotek Anbotek	N
A	ANNEX A (INFORMATIVE) ROUTINE TESTS	·	
unbotek	Description of routine tests to be carried out by the manufacturer	Anbotek Anbotek	N
В	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE B RECHARGED IN THE APPLIANCE	ATTERIES THAT ARE	

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abotel	IEC 60335-1	tek nbotek Anbo	r .
Clause	Requirement + Test	Result - Remark	Verdict
- Pri.	stek inboten Ante stotek	Anboi An tek mbo	101
	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance	Anbotek Anbotek Ar Anbotek Anbotek Ar	Ν
Anbotek	Three forms of construction covered:	ak Anboten Anbo	
Anbotek Anbo	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	ntotek Anbotek Anbotek Anbotek Anbotek Anbotek	Ν
Anbotek Anbotek Anbotek Anbotek	b) The part of the appliance incorporating the battery 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	Anborek Anborek An Anborek Anborek An Anborek Anborek Anborek Anborek	Ν
k Anbo otek An nbotek	c) The part of the appliance incorporating the battery 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 Anbor An Anbotek Anbotek Anbot Anbotek Anbotek Ant	Ν
3.1.9	Appliance operated under the following conditions:	Anbore K hotek	Ν
Anbore	- the appliance, supplied by its fully charged battery, operated as specified in relevant part 2	ek Anboles Anu	Ν
tek Ant	- the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate	Anbotek Anbotek Anbote Anbotek Anbotek Anb	Ν
Anbotek Anbotek	-if possible, the appliance is supplied from the supply 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 Anbotek Anbotek Anbotek Anbotek	N
ek Anb	- 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	Anbotek Anbotek Anbote Anbotek Anbotek Anbo	Ν
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable	Anbotek Anbotek	Ν
5.B.101	Appliances supplied from the supply mains tested as specified for motor-operated appliances	otek Anbotek Anbotek	Ν
7.1 Anb ^c	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage (V) and polarity of the terminals	Anbotek Anbotek Anbo	Ν
Anbotek	The positive terminal indicated by symbol IEC 60417-5005 and the negative terminal by symbol IEC 60417-5006	Anbotek Anbotek A	Ν

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abote	IEC 60335-1	tek inboten And	
lause	Requirement + Test	Result - Remark	Verdict
nbotek	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	Anborek Anborek Anborek Anborek Anborek Anborek	N
Annunote	use only with <model designation=""> supply unit :</model>	-k hotek Anbotek	N
7.6 ^{Ann}	Additional symbols	pres And sotek Anbotek	Ν
7.12 Market	The instructions give information regarding charging	nbotek Anbotek Anbot	N
nbotek nbotek	Instructions for appliances incorporating batteries intended to be replaced by the user include required information	Anbotek Anbotek An	N
Anbotek	Instructions for appliances containing non user-repla substance of the following:	ceable batteries state the	N
ek Anbr	This appliance contains batteries that are only replaceable by skilled persons	botek Anbotek Anbot	Ν
botek	Instructions for appliances containing non-replaceab substance of the following:	le batteries shall state the	Ν
Anbotek	This appliance contains batteries that are non- replaceable	Anbotek Anbotek	Ν
Anu	For appliances intending to be supplied from a detac purposes of recharging the battery, the type reference is stated along with the following:		N
potek tek	WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance	Anbotek Anbotek Anb	Ν
Anborek	If the symbol for detachable supply unit is used, its meaning is explained	Anbotek Anbotek	Ν
7.15 Anbot	Markings placed on the part of the appliance connected to the supply mains	onek Anborek Anbore	Ν
.ex An	The type reference of the detachable supply unit is placed in close proximity to the symbol	Anbotek Anbo	Ν
3.2 Anbolek	Appliances having batteries that according to the instruction may be replaced by the user need only have basic insulation between live parts and the inner surface of the battery compartment	Anbotek Anbotek A Anbotek Anbotek A	N
Anbote	If the appliance can be operated without batteries, double or reinforced insulation required	otek Anbotek Anbotek	N
1.7	The battery is charged for the period stated in the instructions or 24 h	hbotek Anbotek Anbo	N
	Temperature rise of the battery surface does not	Anbotek Anbotek Ar	Ν
1.8 ek	exceed the limit in the battery manufacturer's specification; measured (K); limit (K):	anbotek Anbor	

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IEC 60335-1			E.
Clause	Requirement + Test	Result - Remark	Verdic
19.1	Appliances subjected to tests of 19.B.101, 19.B.102 and 19.B.103	Anborek Anborek Anbo	N
19.10	Not applicable	Anbore All abotek	N
19.B.101	Appliances supplied at rated voltage for 168 h, the battery being continually charged	tek unbotek Anbotek	N
19.B.102	For appliances having batteries that can be removed without the aid of a tool, short-circuit of the terminals of the battery, the battery being fully charged,	Anbotek	N
19.B.103	Appliances having batteries replaceable by the user supplied at rated voltage under normal operation with the battery removed or in any position allowed by the construction	Anbotek Anbotek Kek Anbotek Anbotek	N
19.13	The battery does not rupture or ignite	otek unbotek Anbor	N
21.B.101	Appliances having pins for insertion into socket- outlets have adequate mechanical strength	Anbotek Anbotek Anbo	N
nbotek hotek	Part of the appliance incorporating the pins subjecte 2, of IEC 60068-2-31, the number of falls being:	d to the free fall test, procedure	
Anbotek	- 100, if the mass of the part does not exceed 250 g (g)	ek Anbotek Anbotek	N
Anbor	- 50, if the mass of the part exceeds 250 g	potek Anboren Anbo	N
rek Ant	After the test, the requirements of 8.1, 15.1.1, 16.3 and clause 29 are met	Anbotek Anboter Anb	N
22.3	Appliances having pins for insertion into socket- outlets tested as fully assembled as possible	Anboide And	N
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	otek Anbotek Anbotek otek Anbotek Anbotek	N
30.2	For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies	anbotek Anbotek Anb	N
hotek	For other parts, 30.2.2 applies	Anti-	N
C	ANNEX C (NORMATIVE) AGEING TEST ON MOTORS	·	
Anbote Anbr	Tests, as described, carried out when doubt with regard to the temperature classification of the insulation of a motor winding	otek Anbotel Anu	N
ofek A	Test conditions as specified	sobotek Anboten Anbo	N
D	ANNEX D (NORMATIVE) THERMAL MOTOR PROTECTORS	1 653 ¹ 6 ³ 7	
Anbo.	Applicable to appliances having motors that incorporate thermal motor protectors necessary for	Anbor Anborek	N

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onbo	IEC 60335-1	100
Clause	Requirement + Test Result - Remark	Verdict
rtek h.	Test conditions as specified	N
E	ANNEX E (NORMATIVE)	
L	NEEDLE-FLAME TEST	
Anbo	Needle-flame test carried out in accordance with IEC 60695-11-5, with the followin modifications:	ng N
7	Severities	N
otek	The duration of application of the test flame is $30 \text{ s} \pm 1 \text{ s}$	N N
9 poten	Test procedure	N
9.1 Anborek	The specimen so arranged that the flame can be applied to a vertical or horizontal edge as shown in the examples of Figure 1	N
9.2	The first paragraph does not apply	N
otek r	If possible, the flame is applied at least 10 mm from a corner	N
9.3	The test is carried out on one specimen	N
Anboten Anbotel	If the specimen does not withstand the test, the test may be repeated on two additional specimens, both withstanding the test	N N
11 Anb	Evaluation of test results	o ^{te} N
rek p	The duration of burning not exceeding 30 s	N
botek	However, for printed circuit boards, the duration of burning not exceeding 15 s	N
F	ANNEX F (NORMATIVE) CAPACITORS	
Pupo Pupo	Capacitors likely to be permanently subjected to the supply voltage, and used for radio interference suppression or voltage dividing, comply with the following claus of IEC 60384-14, with the following modifications:	es N
1.5	Terms and definitions	n ^{bi} N
1.5.3	Class X capacitors tested according to subclass X2	P N
1.5.4	This subclause is applicable	N
1.6×1001	Marking	N
Aupo	Items a) and b) are applicable	ste ^k N
3.4	Approval testing	N
3.4.3.2	Table 3 is applicable as described	N
4.1	Visual examination and check of dimensions	N 🕅
Ann wotek	This subclause is applicable	N
4.2	Electrical tests	N
4.2.1	This subclause is applicable	^{kek} N

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Clause	Requirement + Test	Result - Remark	Verdict
en bug	ak obotek Anboit All otek	Anboren Anbo	104
4.2.5	This subclause is applicable	abotek Anboro An	N
4.2.5.2	Only table 11 is applicable	put abotek Anboten A	N
hundek	Values for test A apply	botek Anboten	N
Anbotel	However, for capacitors in heating appliances the values for test B or C apply	otek Anbotek Anbotek	N
4.12	Damp heat, steady state	abotek Anbots And	N
otek A	This subclause is applicable	botek Anboto Ano	N
Anbotek	Only insulation resistance and voltage proof are checked	Anbotek Anbotek Ar	N
4.13	Impulse voltage	Anboth An hotek	N
Anboton	This subclause is applicable	rek Anbole Ann Antek	N
4.14 Anbo	Endurance	abotek Anboter Anbo	N
otek pr	Subclauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 are applicable	Anbotek Anbotek Anb	N
4.14.7	Only insulation resistance and voltage proof are checked	Anbola Anbotek	N
hotek	No visible damage	ak botek Anboten	N
4.17	Passive flammability test	ak botek Anboter	N
k Dun	This subclause is applicable	porte Ann hotek Anbote	N
4.18	Active flammability test	Anbore And wotek Ant	N
boten	This subclause is applicable	Anboten And atek	N
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS		
Antoth	The following modifications to this standard are appli transformers:	icable for safety isolating	N
7" Ant	Marking and instructions	abotek Anbote And	Ν
7.1	Transformers for specific use marked with:	An hotek Anboten And	N
Anbotek	-name, trademark or identification mark of the manufacturer or responsible vendor	Antotek Antotek A	N
Anbote	-model or type reference:	K Anbote Ant wotek	Ν
17 Anbote	Overload protection of transformers and associated	circuits	N
ek Anb	Fail-safe transformers comply with subclause 15.5 of IEC 61558-1	inbotek Anbotek Anbo	N
22	Construction	Anbore, Anu otek	N
Anboten	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable	Anbotek Anbotek	N
29	Clearances, creepage distances and solid insulation	k wotek anboten	N
29.1, 29.2, 29.3	The distances specified in items 2a, 2c and 3 in table 13 of IEC 61558-1 apply	otek photek Anbotek	N

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PULL	- All All All All All All All All All Al	love prov	-
lause	Requirement + Test	Result - Remark	Verdic
ek pr.	hotak Anbote Ans	And h hotek and	10
	For insulated winding wires complying with subclause 19.12.3 of IEC 61558-1 there are no requirements for clearances or creepage distances	Anbotek Anbotek Ar	N
Anbotek	For windings providing reinforced insulation, the distance specified in item 2c of table 13 of IEC 61558-1 is not assessed	hitek Anbotek Anbotek	N
hek Anbo	For safety isolating transformers subjected to periodic voltages with a frequency exceeding 30 kHz, the clearances, creepage distances and solid insulation values specified in IEC 60664-4 are applicable, if greater than the values specified in items 2a, 2c and 3 in table 13 of IEC 61558-1	Anbotek A	N
1	ANNEX H (NORMATIVE) SWITCHES		
Anbo	Switches comply with the following clauses of IEC 6	1058-1, as modified below:	
lek Ar	The tests of IEC 61058-1 carried out under the conditions occurring in the appliance	Anbotek Anbotek Ant	N
unbotek.	Before being tested, switches are operated 20 times without load	Anborek Anborek	N
botek	Marking and documentation	rek abotek Anbote	N
-bot	Switches are not required to be marked	ek sootek Anbolt	N
ek Ant	However, a switch that can be tested separately from the appliance marked with the manufacturer's name or trade mark and the type reference	Anbotek Anbotek Anbotek Anbote	N
3	Mechanism	And tek anbotek	N
Anboursek	The tests may be carried out on a separate sample	Anbo tek obotek	N
5 Anbo	Insulation resistance and dielectric strength	lek Anbou ek abotek	N
5.1 Anbor	Not applicable	botek Anbor All hotel	N
5.2	Not applicable	nbotek Anbors An	N
5.3	Applicable for full disconnection and micro- disconnection	Anbotek Anbote And	N
7 ^{bo}	Endurance	Anbo, A, botek	N
Anbore	Compliance is checked on three separate appliances or switches	rek anbotek Anbotek	N
e Aupr	For 17.2.4.4, the number of cycles declared according to 7.1.4 is 10 000, unless	nbotek Anbotek Anbote	N
otek A	otherwise specified in 24.1.3 of the relevant part 2 of IEC 60335	Anbotek Anbotek Ar	N
Anbotek	Switches for operation under no load and which can be operated only by a tool, and	Anbotek Anbotek	N
Anbotek	switches operated by hand that are interlocked so that they cannot be operated under load,	otek Anbotek Anbo	N

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lause	Requirement + Test	Result - Remark	Verdia
	k votek Anbote And	nbolat Analy A	KOH-
otek p	are not subjected to the tests	botek Anboter And	N
Anbotek	However, switches without this interlock are subjected to the test of 17.2.4.4 for 100 cycles of operation	Anbotek Anbotek A	N
abotek	Subclauses 17.2.2 and 17.2.5.2 not applicable	tek unbotek Anbo	Ν
K Anbo	The ambient temperature during the test is that occurring in the appliance during the test of Clause 11 in IEC 60335-1	nbotek Anbotek Anbotek Anbote	N
nbotek	The temperature rise of the terminals not more than 30 K above the temperature rise measured in clause 11 of IEC 60335-1 (K)	Anbotek Anbotek An	Ν
20 Anbotek	Clearances, creepage distances, solid insulation and assemblies	l coatings of rigid printed board	Ν
htek Anbo	Clause 20 is applicable to clearances across full disconnection and micro-disconnection	botek Anbotek Anbot	Ν
nbotek Lotek	It is also applicable to creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in Table 24	Anbotek Anbotek Ant	Ν
	ANNEX I (NORMATIVE) MOTORS HAVING BASIC INSULATION THAT IS II RATED VOLTAGE OF THE APPLIANCE	NADEQUATE FOR THE	
rek pr	The following modifications to this standard are appli	cable for motors having basic	N 1
	insulation that is inadequate for the rated voltage of t		Ν
Botek	insulation that is inadequate for the rated voltage of t Protection against access to live parts		N
9	the property of the second sec		
8.1	Protection against access to live parts Metal parts of the motor are considered to be bare		N
8 8.1 11 11.3	Protection against access to live parts Metal parts of the motor are considered to be bare live parts		N
8.1 11	Protection against access to live parts Metal parts of the motor are considered to be bare live parts Heating The temperature rise of the body of the motor is determined instead of the temperature rise of the		N N N
3.1 11 11.3 11.8	 Protection against access to live parts Metal parts of the motor are considered to be bare live parts Heating The temperature rise of the body of the motor is determined instead of the temperature rise of the windings The temperature rise of the body of the motor, where in contact with insulating material, not exceeding values in table 3 for the relevant 		N N N N
3.1 11 11.3 11.8 16	 Protection against access to live parts Metal parts of the motor are considered to be bare live parts Heating The temperature rise of the body of the motor is determined instead of the temperature rise of the windings The temperature rise of the body of the motor, where in contact with insulating material, not exceeding values in table 3 for the relevant insulating material 		N N N N
3.1 11.3 11.8 16 16.3	 Protection against access to live parts Metal parts of the motor are considered to be bare live parts Heating The temperature rise of the body of the motor is determined instead of the temperature rise of the windings The temperature rise of the body of the motor, where in contact with insulating material, not exceeding values in table 3 for the relevant insulating material Leakage current and electric strength Insulation between live parts of the motor and its 		N N N N N
3.1 11 11.3 11.8 16 16.3	Protection against access to live parts Metal parts of the motor are considered to be bare live parts Heating The temperature rise of the body of the motor is determined instead of the temperature rise of the windings The temperature rise of the body of the motor, where in contact with insulating material, not exceeding values in table 3 for the relevant insulating material Leakage current and electric strength Insulation between live parts of the motor and its other metal parts is not subjected to the test Abnormal operation		N N N N N N
8.1 11 11.3	 Protection against access to live parts Metal parts of the motor are considered to be bare live parts Heating The temperature rise of the body of the motor is determined instead of the temperature rise of the windings The temperature rise of the body of the motor, where in contact with insulating material, not exceeding values in table 3 for the relevant insulating material Leakage current and electric strength Insulation between live parts of the motor and its other metal parts is not subjected to the test 	he appliance:	N N N N N N N

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Clause	Requirement + Test	Result - Remark	Verdic
3r Pres	or boten Andore And	unboten prob	Her
otek	- short circuit of each diode of the rectifier	abotek Anbore And	N
botek	- open circuit of the supply to the motor	Autotek Anboien A	N
Anbotek	- open circuit of any parallel resistor, the motor being in operation	Anbotek Anbotek	N
k Anbore	Only one fault simulated at a time, the tests carried out consecutively	otek Anbotek Anbotek	N
22	Construction	tek nbotek Anbo	N
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 Ar Anbotek Anbotek	N
Anbote	Compliance checked by the tests specified for double and reinforced insulation	tek Anbolek Anbolek	N
J	ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS		
hotek	Testing of protective coatings of printed circuit board with IEC 60664-3 with the following modifications:	ls carried out in accordance	N
5.7	Conditioning of the test specimens	Anbor ok botek	N
Anbol	When production samples are used, three samples of the printed circuit board are tested	ek Anbohn Anbotek	N
5.7.1	Cold	bo botek Anbot	N
- A	The test is carried out at -25 °C	Anbor Ant botek Ant	N
5.7.3	Rapid change of temperature	Anboro Ann hotek	N
Anboter	Severity 1 is specified	Anbotek And wotek	N
5.9 Anboron	Additional tests	ek Anboion Anno otek	N
Anbot	This subclause is not applicable	otek Anbotek Anbo	N
ĸ	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES		
obotek	The information on overvoltage categories is extracted from IEC 60664-1	Anborek Anborek	Р
Anbotek	Overvoltage category is a numeral defining a transient overvoltage condition	K Anbotek Anbotek	Р
k Anbon	Equipment of overvoltage category IV is for use at the origin of the installation	otek Anborr And	N
otek Inbotek	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	Anbotek Anbotek Anbo	N
Anbotek	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation	Anbotek Anbotek	N

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nabor	Ant spote	IEC 60335-1	h. wek	anbore	Ann	
Clause	Requirement + Test	otek Anboten	Result	- Remark	Anbore	Verdic
otek Inbotek	If such equipment is subject requirements with regard to availability, overvoltage cat	o reliability and	ak Anbot	ek Anbotek botek Anbo	tek Al	N
Anbotek Anbote	Equipment of overvoltage of for connection to circuits in taken to limit transient over appropriate low level	which measures are		Anbotek An Anbotek	Anbotek Anbotek	N
	ANNEX L (INFORMATIVE GUIDANCE FOR THE ME DISTANCES		LEARANCE	S AND CREE	PAGE	
Anbotek	Information for the determin creepage distances	nation of clearances	and	Anbotek An	botek	
1	ANNEX M (NORMATIVE) POLLUTION DEGREE					
ek p	The information on pollution from IEC 60664-1	n degrees is extract	ed Name	k Anbotek	Anbot	Р
otek	Pollution	abotek Anbote	K N	otek Anbot	PU, PU,	Р
Anbotek	The microenvironment deterno pollution on the insulation, macroenvironment		N/	inbotek Ant	Anbotek k	Р
Anbo	Means may be provided to insulation by effective enclo		the	Anbotek	Anboro	Р
otek Al	Minimum clearances species be present in the microenvirus		may Mindote	tek unbore	ik Anb	Р
wek.	Degrees of pollution in the	microenvironment	ter Aup.	do Hor	otek l	Р
Anbo, Anborek	For evaluating creepage di microenvironment are esta		ng degrees of	f pollution in the	enbotek	Р
Anbot An	- pollution degree 1: no pol conductive pollution occurs influence			Anbotek	Anbore	N
otek Inbotek	- pollution degree 2: only no occurs, except that occasic conductivity caused by con expected	onally a temporary	ion Anbo	tek Anbole botek Anb	hbotek Anb	Р
Anbo Anbot Anbot	- pollution degree 3: condu dry non-conductive pollutio conductive due to condens expected	on occurs that becom		Anbotek Anbotek Anbotek	Anbotek Anbotek	N
hbotek	- pollution degree 4: the po persistent conductivity caus or by rain or snow		ust Anbot	ek Anboten potek Anbo	tek Ano	N
	ANNEX N (NORMATIVE) PROOF TRACKING TEST	-				
AUD-	The proof tracking test is ca	P.,			r	N

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Clause	Requirement + Test Result - Remark	Verdic
SK. An	ak boten Anboten Anbot	otet
7010k	Test apparatus	N
7.3 de 1	Test solutions	N
hotek	Test solution A is used	N
10	Determination of proof tracking index (PTI)	N
10.1	Procedure	N
Pup	The proof voltage is 100V, 175V, 400V or 600V:	N
otex	The test is carried out on five specimens	N
Anbotek	In case of doubt, additional test with proof voltage reduced by 25V, the number of drops increased to 100	N
10.2	Report	N
stek Anb	The report states if the PTI value was based on a test using 100 drops with a test voltage of (PTI-25) V	N
0	ANNEX O (INFORMATIVE) SELECTION AND SEQUENCE OF THE TESTS OF CLAUSE 30	
Anbotek	Description of tests for determination of resistance to heat and fire	Р
Ρ	ANNEX P (INFORMATIVE)	
	GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN TROPICAL CLIMATES	
botek	GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES	 N
botek Anbotek Anbotek Anbotek	GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN TROPICAL CLIMATES Modifications applicable for class 0 and 01 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that	N N
botek Anbotek Anbotek Anbotek	GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN TROPICAL CLIMATES Modifications applicable for class 0 and 01 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332 Modifications may also be applied to class 1 appliances having a rated voltage exceeding 150V, intended to be used in countries having a rated voltage exceeding 150V, intended to be used in countries having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332, if liable to be connected to a supply	6
botek Anbotek Anbotek 5.7	GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN TROPICAL CLIMATESModifications applicable for class 0 and 01 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332Modifications may also be applied to class 1 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332, if liable to be connected to a supply mains that excludes the protective earthing conductorThe ambient temperature for the tests of clauses 11	N
5.7 5.7 7.1 britek	GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN TROPICAL CLIMATESModifications applicable for class 0 and 01 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332Modifications may also be applied to class 1 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332, if liable to be connected to a supply mains that excludes the protective earthing conductorThe ambient temperature for the tests of clauses 11 and 13 is 40 +3/0 °CThe appliance marked with symbol IEC 60417-	N
5.7 7.1	GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN TROPICAL CLIMATES Modifications applicable for class 0 and 01 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332 Modifications may also be applied to class 1 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332, if liable to be connected to a supply mains that excludes the protective earthing conductor 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	N N N
5.7 7.1 7.12	GUIDANCE FOR THE APPLICATION OF THIS STANDARD TO APPLIANCES USED IN TROPICAL CLIMATES Modifications applicable for class 0 and 01 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332 Modifications may also be applied to class 1 appliances having a rated voltage exceeding 150V, intended to be used in countries having a tropical climate and that are marked with symbol IEC 60417-6332, if liable to be connected to a supply mains that excludes the protective earthing conductor 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	N N N N

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IEC 60335-1				
Clause	Requirement + Test Result - Remark	Verdic		
13.2	The leakage current for class I appliances not exceeding 0,5 mA	N		
15.3	The value of t is 37 °C	N		
16.2	The leakage current for class I appliances not exceeding 0,5 mA (mA):	N		
19.13 Ando	The leakage current test of 16.2 is applied in addition to the electric strength test of 16.3	N		
ð	ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR THE EVALUATION OF ELECTRONIC CIRCUITS			
wotek	Description of tests for appliances incorporating electronic circuits	N		
R	ANNEX R (NORMATIVE) SOFTWARE EVALUATION			
stek Anto	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	N		
R.1	Programmable electronic circuits using software	N		
Anbotek Anbotek Anbote	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	Ν		
R.2	Requirements for the architecture	N		
Anbotek Anbotek 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	N		
R.2.1.1	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.2 have one of the following structures:	N		
Anbotek	- single channel with periodic self-test and monitoring	N		
Anburgetek	- dual channel (homogenous) with comparison	N		
AUPO	- dual channel (diverse) with comparison	N		
otek Andr	Programmable electronic circuits requiring software incorporating measures to control the fault/error conditions specified in table R.1 have one of the following structures:	N		
nbotek	- single channel with functional test	N		
Anbotek	- single channel with periodic self-test	N		
abotek	- dual channel without comparison	N		
R.2.2	Measures to control faults/errors	N		

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Clause	Requirement + Test	Result - Remark	Verdict
AND			(et allo
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	Anbotek Anbotek Anbotek An	N
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	Ν
R.2.2.3	For programmable electronic circuits with functions requiring software incorporating measures to control 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 botek Anbotek Anbotek botek Anbotek Anbotek	N
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	Anbor An Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N
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	Anbotek Anbotek Anbo Anbotek Anbotek Anb	Ν
R.2.2.6	The software is referenced to relevant parts of the operating sequence and the associated hardware functions	otek Anbotek Anbotek	Ν
R.2.2.7	Labels used for memory locations are unique	tek spotek Anbor	Ν
R.2.2.8	The software is protected from user alteration of safety-related segments and data	Anbotek Anbotek Anb	Ν
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 Anbotek	Ν
R.3 Anbotes	Measures to avoid errors	notek Anbotes Anos	Ν
R.3.1	General	hotek Anbotek Anbo	Ν
otek A	For programmable electronic circuits with functions measures to control the fault/error conditions specifi following measures to avoid systematic fault in the s	ed in table R.1 or R.2, the	Ν
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	otek Anbotek Anbotek otek Anbotek Anbotek	N

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Clause	Requirement + Test	Result - Remark	Verdi
Augo	interest interest interest interest		10 CTUR
R.3.2	Specification	hin hotek Anboten Anbo	N
R.3.2.1	Software safety requirements:	Software Id:	N
Anbotek	The specification of the software safety requirements includes the descriptions listed	Anbotek Anborek	N
R.3.2.2	Software architecture	otek Anboitek Anbo	N
R.3.2.2.1	The specification of the software architecture includes the aspects listed	Document ref. No:	Ν
	- techniques and measures to control software faults/errors (refer to R.2.2);	Anbotek Anbotek An	
	- interactions between hardware and software;	An- stek anbotek	
	 partitioning into modules and their allocation to the specified safety functions; 	Anborek Anborek Anborek	
	 hierarchy and call structure of the modules (control flow); 	botek Anbotek Anbote	
	- interrupt handling;	botek Anbote Ant	
	- data flow and restrictions on data access;	Ame tek nbotek Ant	
	- architecture and storage of data;	Anbo. K hotek	
	- time-based dependencies of sequences and data	Anboten Ano	
R.3.2.2.2	The architecture specification is validated against the specification of the software safety requirements by static analysis	ek Anbotek Anbo	Ν
R.3.2.3	Module design and coding	otek anbotek Anbo	N
R.3.2.3.1	Based on the architecture design, software is suitably refined into modules	Anbotek Anbotek Anb	Ν
Anborek	Software module design and coding is implemented in a way that is traceable to the software architecture and requirements	Anbotek Anbotek Anbotek Anbotek	Ν
R.3.2.3.2	Software code is structured	Jotek Anbour An hotel	Ν
R.3.2.3.3	Coded software is validated against the module specification by static analysis	Anbotek Anbotek Anb	Ν
Anbotek	The module specification is validated against the architecture specification by static analysis	Anborek Anborek A	Ν
R.3.3.3	Software validation	k abotek Anbote	Ν
Anbotel	The software is validated with reference to the requirements of the software safety requirements specification	otek Anbotek Anbotek Anbotek	Ν
stek	Compliance is checked by simulation of:	atek anbotek Anbo	Ν
	- input signals present during normal operation	And tek abotek Ar	Ν
Anboi	- anticipated occurrences	Anbo, by potek	N
npore	- undesired conditions requiring system action	10001 AU	N

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IEC 60335-1

Clause Requirement + Test

Result - Remark

Anboro

Verdict

abotek	Anboro T	ABLE R.1 ^e – GENERAL FAULT/			re, bru,	-otek
Component ^a	Fault/error	Acceptable measures ^{b, c}	Definitions	Document reference for applied measure	Document reference for applied test	Ver- dict
1 CPU 1.1	otek Anb	otek Anbor Anbotek	Anbote	Anu	Anbotek	N N
Registers	Stuck at	Functional test, or	H.2.16.5	tode He	ak Aupo	
abort P	Anbotek	periodic self-test using either:	H.2.16.6	An	stek on	poter
Anbotek	Anbo	- static memory test, or	H.2.19.6	poten An	po r	hotek
Anbotek	Anbote	 word protection with single bit redundancy 	H.2.19.8.2	Anbotek	Anborek	Anbote
1.2 VOID	ek no	tek Anbotek Anbo	A. anbotek	Anboro	horek hotek	N prob
1.3 M	Stuck at	Functional test, or	H.2.16.5	Anboi	pres	N N
Programme	botek A	Periodic self-test, or	H.2.16.6	K shote	Anbo	otek
counter	Anbotek	Independent time-slot	H.2.18.10.4	with the stand	otek Ant	Jore .
Anbore	Annotek	monitoring, or	botek Ant	ore An	atek	nbotek
Anbotek	Anbo	Logical monitoring of the programme sequence	H.2.18.10.2	unbotek l	anbo abotek	Anbote
2 Anbo	No	Functional test, or	H.2.16.5	Anbo	P. Lotek	Nanto
Interrupt	interrupt or	time-slot monitoring	H.2.18.10.4	Anboten	AND	6
handling and	too frequent	por Ar. Lotek Anboter	Anu	- pote	k Aupor	N
execution	interrupt	Anboten And tek anbot	ek Anbor	pr.	otek Anb	oter.
3.nbote	Wrong	Frequency monitoring, or	H.2.18.10.1	pres press	-tek	N N
Clock	frequency	time slot monitoring	H.2.18.10.4	nbotek P	nbo	Anbotek
hotek	(for quartz synchroniz	And otek Anbotek	Anbo. P	Anbotek	Anbore	Anu
Anu	ed clock:	ek Anbo. A hotek	Anbotek	Annetek	nbotek	AUP
tek Anbo	harmonics/	otek Anbote Anu	Anbotek	Anbo	h. hotel	- pr
hotek An	sub- harmonics	stek snbotek Anbo	k hotek	Anbore	Ann	Nor
stek	only)	Anbor Ar botek Anbor	Ann	tek nbc	tek Anbi	X
4. Memory	botek	Anbore And otek Ant	orok Anbr	. Ale	boten A	N
4.1 mbotte	All single	Periodic modified checksum, or	H.2.19.3.1	ibore A	otek	Anboten
Invariable	bit faults	multiple checksum, or	H.2.19.3.2	Anbotek	Anbo	100
memory	K Anborn	word protection with single bit	H.2.19.8.2	botek	Anbore	Ann
An	stek ont	redundancy	Anboro	Annotek	Anboten	Pro
4.2	DC fault	Periodic static memory test, or	H.2.19.6	Ano	ek	N N
Variable	nbolt	word protection with single bit	H.2.19.8.2	ek Anbo	Plu	Hatek
memory	anboten	redundancy	Pur Pur	otek pr	poten Ar	lo-
And	botek	Anbor Antoniek	nboten An	- alt	abotek	Anboro
100	Dv.		M	140	Dre	

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Clause	Requirement -	+ Test	Result - Remark	Verdic
	rtoquironioni	oten Anbolen Anb	rtoout rtomant	
4.3 Addressing (relevant to variable and invariable memory)	Stuck at	Word protection with single bit redundancy including the address	H.2.19.8.2	olek Anbolek Anbolek N Anbotek Anbolek
5 Internal data path	Stuck at	Word protection with single bit redundancy	H.2.19.8.2	Anbotek N Anbotek
5.1 VOID	nbotek P	nbo tak abotek Anbore	Ant otak anb	N ANDO
5.2 Addressing	Wrong address	Word protection with single bit redundancy including the address	H.2.19.8.2	Nabotek Andor N
6 External communicat ion	Hamming distance 3	Word protection with multi-bit redundancy, or CRC – single work, or Transfer redundancy, or Protocol test	H.2.19.8.1 H.2.19.4.1 H.2.18.2.2 H.2.18.14	Anbotek Anbotek Anbotek Anbotek
6.1 VOID	Anbore	All hotek Anboten Anb	tek abotek Ar	N
6.2 VOID	Anboten	And tek anbolek A	thor pri	Indoter N
6.3 Timing	Wrong point in time	Time-slot monitoring, or scheduled transmission Time-slot and logical monitoring, or comparison of redundant communication channels by either:	H.2.18.10.4 H.2.18.18 H.2.18.10.3	over hinder
	Wrong sequence	 reciprocal comparison independent hardware comparator Logical monitoring, or time-slot monitoring, or Schodulod transmission 	H.2.18.15 H.2.18.3 H.2.18.10.2 H.2.18.10.4	Anbotek Anbo Anbotek A Anbotek A Anbotek Anbotek
7 Input/output periphery	Fault conditions specified in 19.11.2	Scheduled transmission Plausibility check	H.2.18.18 H.2.18.13	Albotek Anbotek Anbo
7.1 VOID	at the	otek Anboron Anon Atek	anbotek Anbois	w shotek N
7.2 Analog I/O 7.2.1 A/D and D/A- converter	Fault conditions specified in 19.11.2	Plausibility check	H.2.18.13	orek Anborek Anborek

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IEC 60335-1

Clause	Requirement	+ Test	Result	- Remark	Verc
7.2.2 Analog multiplexer	Wrong addressing	Plausibility check	H.2.18.13	ek Anbovek	ek Anbotek
8 VOID	And	abotek Anboit	Amunotek	Arboten Ar	et is
9 Custom chips ^d e.g. ASIC, GAL, gate array	Any output outside the static and dynamic functional specificatio n	Periodic self-test	H.2.16.6	Anbotek Anbotek Anbotek Anbotek Anbot	Anbo Anbotek Anbotek Anbotek 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.

^{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.

^{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 A NON-RECHARGEABLE OR NOT RECHARGED IN THE APPLIANCE	IRE
otek Ant	The following modifications to this standard are applicable for battery-operated appliances where the batteries are either non-rechargeable (primary batteries), or	Anbot N
Anbotek	rechargeable batteries (secondary batteries) that are not recharged in the appliance	N
5.8.1 pore	If the supply terminals for the connection of the battery have no indication of polarity, the more unfavourable polarity is applied	ibotek N
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	
5.S.102	Appliances are tested as motor-operated appliances.	e ^k N
7.1 Anbote	Appliances marked with the battery voltage (V) and the polarity of the terminals, unless	N N
ler Pup	the polarity is irrelevant	N
looter P	Appliances also marked with:	N
Anbotek	– name, trade mark or identification mark of the manufacturer or responsible vendor	N
And	– model or type reference	o ^{tek} N
ek anbo	 – IP number according to degree of protection against ingress of water, other than IPX0	Anbotek N

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Clause	Requirement + Test	Result - Remark	Ver
her bu	of solet Anbois All stek	Anboten And	het.
potek	- type reference of battery or batteries	anbortek Anborrak An	
Anbotek	If relevant, the positive terminal is indicated by the symbol IEC 60417-5005 and the negative terminal by the symbol IEC 60417-5006	Anbotek Anbotek Anbotek	1
Anbote Bek Ant	If appliances use more than one battery, they are marked to indicate correct polarity connection of the batteries	otek Anbotek Anbotek Anbotek	1
7.6	Additional symbols	hotek Anbores Anb	I
7.12	The instructions contain the following, as applicable	And otek unbotek Al	
Anbo	- the types of batteries that may be used	Anbo tek nbotek	I
Anbor	– how to remove and insert the batteries	Anboi Ai boiek	
Anboro	 non-rechargeable batteries are not to be recharged 	otek Anbotek Anbotek	
potek p	 rechargeable batteries are to be removed from the appliance before being charged 	Anbotek Anbotek Anbo	I
Anbotek	 different types of batteries or new and used batteries are not to be mixed 	Anbotek Anbotek	I
Anbotek	 batteries are to be inserted with the correct polarity 	tek Anbotek Anbotek	
tek Anbc	 – exhausted batteries are to be removed from the appliance and safely disposed of 	botek Anbolt An	
unbotek k	 if the appliance is to be stored unused for a long period, the batteries are removed 	Anborek Anborek Ant	I
Anbotek	- the supply terminals are not to be short-circuited	Nnbotek Anbo'	
11.5	Appliances are supplied with the most unfavourable	supply voltage between	
tek Anbo	 – 0,55 and 1,0 times the battery voltage, if the appliance can be used with non-rechargeable batteries 	potek Anbotek Anbotek Anbotek	l
hotek	 - 0,75 and 1,0 times battery voltage, if the appliance is designed for use with rechargeable batteries only 	Anbotek Anbotek Anb	1
Anbotek	The values specified in Table S.101 for the internal resistance per cell of the battery is taken into account	ek Anbotek Anbotek	
19.1	The tests are carried out with the battery fully charged unless otherwise specified	anbotek Anbotek Anbote	I
19.13	The battery does not rupture or ignite	Anbotek Anbot Ak	I
19.S.101	Appliances are supplied with the voltage specified in 11.5. The supply terminals having an indication of polarity are connected to the opposite polarity, unless	k Anbotek Anbotek Anbotek	I
ek ont	such a connection is unlikely to occur due to the construction of the appliance	ortek Anbotek Anbotek	1

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abote	IEC 60335-1	tek nboter Anb	
Clause	Requirement + Test	Result - Remark	Verdict
19.S.102	For appliances with provision for multiple batteries, one or more of the batteries are reversed and the appliance is operated, if reversal of batteries is allowed by the construction	Anbotek Anbotek Anbotek	N
25.5	The flexible leads or flexible cord used to connect an external battery or battery box in is connected to the appliance by a type X attachment	otek Anbotek Anbotek	N
25.13	This requirement is not applicable to the flexible leads or flexible cord connecting external batteries or a battery box with an appliance	Anbotek Anbotek Anbo	N
25.S.101	Appliances have suitable means for connection of the battery. If the type of battery is marked on the appliance, the means of connection is suitable for this type of battery	Anbotek Anbotek Anbotek Anbotek Anbotek	N
26.5	Terminal devices in an appliance for the connection of the flexible leads or flexible cord connecting an external battery or battery box are so located or shielded that there is no risk of accidental connection between supply terminals	Anbotek An	Ν
30.2.3.2	There is no battery in the area of the vertical cylinder used for the consequential needle flame test, unless	tek Anbotek Anbotek	N
tek Anbo	the battery is shielded by a barrier that meets the needle flame test of Annex E, or	nbotek Anborrek Anborr	Ν
hotek	that comprises material classified as V-0 or V-1 according to IEC 60695-11-10	Anbotok Anbotek An	Ν
т	ANNEX T (NORMATIVE) UV-C RADIATION EFFECT ON NON-METALLIC N	MATERIALS	
Anu Anbott	Requirements for non-metallic materials subject to direct or reflected UV-C radiation exposure and whose mechanical and electrical properties are relied upon for compliance with the	Dotek Anbotek Anbotek	N
botek *ek	Does not apply to glass, ceramic and similar materials	Anbotek Anbotek	Ν
Anbo,	Tested as specified in ISO 4892-1 and ISO 4892-2, modifications:	with the following	Ν
Anbote	Modifications to ISO 4892-1:	otek unbotek Anbote	Ν
5.1.6	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	Anbotek Anbotek Anbotek	N
hotek	Subclause 5.1.6.1 and Table 1 are not applicable	Ann hotek Anbotek A	Ν
5.2.4	The black-panel temperature shall be 63 °C +/- 3 °C	Anbotek Anbotek	Ν
5.3.1 Moore	Humidification of the chamber air is specified in part 2 when necessary	otek Anboten Anbotek	Ν

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
b.	and anoter Andor K wotek	Anbois An sek abs	Net
9 rek	This clause is not applicable	unbotek Anbo, At	Ν
obotek	Modifications to ISO 4892-2:	Anbotek Anboi A	Ν
7.1 botek	At least three test specimens are tested	K sobotek Anbore	Ν
A. bot	Ten samples of internal wiring is tested	ok spotek Anbote	Ν
7.2	The specimens are attached to the specimen holders such that they are not subject to any stress	nbotek Anbotek Anbote	Ν
7.3	Apparatus prepared as specified	abotek Anbote Ant	Ν
	The test specimens and, if used, the irradiance- measuring instrument are exposed for 1 000 h	Anbotek Anbotek Al	Ν
7.4 hone	If used, a radiometer is mounted and calibrated such that it measures the irradiance at the exposed surface of the test specimen	anbotek Anbotek Anbotek	N
7.5 Anto	Material properties and test methods for parts providing mechanical support or impact resistance as specified in Table T.1	Anbotek Anbotek Anboi	Ν
Anbotek	Material properties and test method for electrical insulation of internal wiring as specified in Table T.2	Anbotek Anbotek	Ν
8 Anbote	This clause is not applicable	rek Anboter And	Ν

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Product Safety

Δ

botek

10.1	TABLE: Pov	wer input deviatio	n nabotek At			P An
Input devi	ation of/at:	P rated (W)	P measured (W)	ΔΡ	Required ΔP	Remark
230	VAC/50Hz	140W	144W	+2.9%	+20%	AnbP
230	VAC/60Hz	140W	149W	+6.4%	+20%	Rooten

10.2 TABLE: Curre	ent deviation	Anbort	notek.	Anboten Ar	N N	
Current deviation of/at:	I rated (A)	I measured (A)	ΔΙ	Required A I	Remark	
Anbote. Ant	nbotek Ant	or pr. notek	Anbote	Anv	anbotek	
Anbotek Anbor	s nbotek	rupore An	rek Anbr	ler Aupo	ek nbotek	
Supplementary information:	botek	Anbore An-	wotek A	nbotek Anbo	rek potet	

11.8	TABLE: Heating test	nbotek	Anboten	And	Anboiek	, P
rek bi	Test voltage (V)	:	Anbote.	254.4	Ani -	
,nbor sek	Ambient t1(°C)	:	Aupor	24.1	.ek _	_
Anbo	Ambient t2(°C)	:	k Aupo.	24.3	potek -	_
Thermoco	uple locations:		perature rise ed, Δ T (K)		emperature r mit, Δ T (K)	ise
Supply cor	dotek Anboin A. hotek	Anboten	8.6	a botek	50	Р
Inlet	abotek Anbote Anto Lotek	Anbotek	11.7	abotek	50,000	
Switch	An abotek Anbote. And atek	Anbotek	9.3 1000	K both	ak 60 Aupore	
Enclosure	An hotek Anboten Anu	K nbote	5.5 Mbon	pit at	otel 50 Anb	oter
Internal wir	e Arthen Anboren Anbor	wek ab	26.8	or pris	80	nbo
Test corne	And otek Anbotek Ant	lo. h.	4.8	nbole	65	25
Supplemen	ntary information:	Anbor	wotek	Anboter	And	100

11.8	TABLE: Heating test	, resistance n	nethod			Priorien
Anbois	Test voltage (V)			: Anbo	ok hotel	њ <u> </u>
Anbore	Ambient, t1 (°C)			: tok A'	hoors Arr	otek —
Anbor	Ambient, t2 (°C)			botek	Anbore And	hotel -
Temperat	ure rise of winding:	R1 (Ω)	R2 (Ω)	ΔΤ(Κ)	Max. Δ T (K)	Insulation class
0°'	An hotek Anbote	Ann	nbotek	Pupo,	de hotek	Anbote
Suppleme	ntary information:	Anbo		ek anbo	to Ann ek	boter

13.2 photos	TABLE: Leakage current	Anbor	An shotek	Anboten	Anbo	Pubo
ek anb	Heating appliances: 1.15 x ra	ated input (W)	: hotek	Anteoten	And	

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tek Anbo	Motor-operated and combined appliances: 1.06 x rated voltage (V)	254.4	V Anbole —
Leakage cu	rrent between:	l (mA)	Max. allowed I (mA)
L, N and me	tal enclosure	0.01	0.75
L, N and pla	stic enclosure	0.01	0.75
Supplement	ary information:	or An hotek	Anboten Anbo

13.3	TABLE: Dielectric strength		untek Anbolek P A	
Test vol	tage applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)	
L, N and	metal enclosure	3000	Anboren No Anbo	
Supplem	entary information:	k Anbore, And Lotek	Anbotek Anbo	

m) Rated	Impulse test voltage (V)	Flashover (Yes/No)
voltage (V)		(100,110)
An botek Anbr	ote Ann stek	anbotek.
Arn hotek A	nboten Anbo	k abot
	Anbotek Anb	Anbolek Anborek Anborek Anborek

16.2	TABLE: Leakage current		potek Anboi P
Anbotek	Single phase appliances: 1.06 x rated voltage (V):	254.4∨	Anbotek
Anbotek	Three phase appliances 1.06 x rated voltage divided by $\sqrt{3}$ (V):	otek Anbotek	Anborek
Leakage c	urrent between:	l (mA)	Max. allowed I (m/
L, N and metal enclosure		0.01	0.75
L, N and plastic enclosure		0.01	0.75
Supplemen	ntary information:	v sotek	Anbon An

16.3	TABLE: Dielectric stre	ength				Р
Test volta	ge applied between:		Test p	otential applie (V)	ed Breakdown / (Yes/I	
L, N and m	netal enclosure	Anboten	And	1250	No	hotek
L, N and p	lastic enclosure	Anbotek	Anbo	3000	An ^{bone} No	In
Suppleme	ntary information:	K abotek	Anbois	V partek	Anbore	Ano

17

TABLE: Overload protection

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N



Thermo	Thermocouple locations:				erature rise d, Δ T (K)	Max. temperature rise limit, Δ T (K)		
botek	Anboi	An hotek	Anboten	And	Anbotek	Anboi.	p.i. botek	
abotek	Anboro	Annotek	Anbotek	Anbu	abotek	Anboro	An	
Supplem	entary inform	ation:	Anothe	Anbotek	Anbor hotek	Anbotek	PLUX	

17	TABLE: Overload	protection, res	istance metho	d Pri	Po' An hotek Anboten				
P	Test voltage (V)		:	Anbote	And otek unbo				
over	Ambient, t1 (°C)		Anboten	And otek N					
Anboten	Ambient, t2 (°C)		:	Anboten	And otek	_			
Temper	ature of winding:	R1 (Ω)	R2 (Ω)	ΔΤ(Κ)	T (°C)	Max. T (°C)			
Anbo	oten Anbo	abotek An	por pri	hotek Ant	oter Ano	sek abo			
K N	nbotek Anbo	abotek	Anboro A	-otek	nbotek Anb	Jek .			
Supplem	nentary information:	A. Lotek	Anbote.	Ann	abotek I	upo. k			

19	Abnormal oper	ation condition	SK anbot				AnboP
Operational	characteristics		YES/NO	Operation	nal condition	าร	
Are there ele appliance o	ectronic circuits peration?	to control the	NO	Anbo			
Are there "o	ff" or "stand-by"	position?	NO	Anbo	-botek	Anbo	in bu
	ded operation of ingerous malfune		NO probately	Anbo	rek Anbo	tek An	bote.
Sub- clause	Operating conditions description	Test results description	PEC descriptio n	EMP 19.11.4	Software type required	19.11.3 PEC	Final result
19.2 chooten	Anbe	botek	Auporo P	N.A	Anboten	AUP	N
19.3	sk Aupon	hotek	Anboret	Ano	Anbotek	Pupo.	N
19.4	potek Anbor	at hotek	Anboten	Anb	ek abot	ok Aul	N
19.5	abotek Anbo	An wor	ek anboter	PUPO	rek .	potek	Ň
19.6	botek Ar	poton Anu	stek snbc	N.A	on pr	abotek	N.nboro
19.7	printborek	Anboten An	det N	100tek	Anbor	hotek	P Anbote
19.8 pr/2014	k sotek	Anboten	And tek	abotek	Anbois	Ann	N Anto
19.9 Anbor	k Ant	Anbotek	Anborrek	h abotek	Anbore	Pun	N
19.10	oter Ano	ak unbotek	Anbo	P	k Anbor	Pup	N
19.11.2	inboten Anbo	tek nbote	K Aupoli	Pro-	otek ant	joter l	N
19.11.4.8	anbotek Ant	ing No.	otek Anbo	Pu,	wotek	nbotek	NODO
19.10X	nbotek	Aupor Au	hotek pr	pote.	un atek	nbotek	N Anbore
Supplementa	ry information:	Anboro	Ann	boter	AUD	rel	6 Mah

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19.7	TABLE: Abnormal	operation, lo	cked rotor/movi	ing parts		bore	P An	
	Test voltage (V)		:	240				
(p010	Ambient, t1 (°C)		Anbois	i a				
Anboro	Ambient, t2 (°C)		:	: 24.7 -				
Temper	ature of winding:	R1 (Ω)	R2 (Ω)	ΔΤ(Κ)	T (°C)	Max. T	(°C)	
Winding	of fan	18.3	21.6	46.6	71.3	17	5	
et p	unboten Anb	nbotek	Anbor	hotek	Anboten An	det et		
Supplem	nentary information:	botek	Anbois	An. stek	Anboten	Anou	E F	

 19.9
 TABLE: Abnormal operation, running overload
 N

 Test voltage (V)
 —

 Ambient, t1 (°C)
 —

 Ambient, t2 (°C)
 —

 Temperature of winding:
 R1 (Ω)

 R2 (Ω)
 Δ T (K)
 T (°C)

 Max. T (°C)
 —

 Supplementary information:
 —

19.13	TABLE: Abnormal operation, terr	TABLE: Abnormal operation, temperature rises							
Thermoc	ouple locations:	Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)						
Test corn	er Anbore Ano Mek Anbore	5.6	150						
Supply co	rd Anboten And tek and	of Ambo 11.1 Lote	150						
Suppleme	entary information:	abotek Anbota Am	Hek Anbotek Anbo						

21.1 TABLE: Imp	act resistance	tek abotek Anb	Anbore Att		
Impacts per surface	Surface tested	Impact energy (Nm)	Comments		
Lotek 3 Anboten	Enclosure	0,5	Anboten P Ano		
Ann hotek Anbotek	Anboursek abotek	Anbola Antotek	Anboten Anbo		
Supplementary information	1: Anbo ek abotek	Anbore And And	Anborek Anbo		

24.1	TABLE: Critical compo	onents informat	tion & Anboten	Anbo	nborek P
Object / par No.	t Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹⁾
Control Box	Zhejiang Jiecang Linear Motion Technology Co.,Ltd	JCB35NS1	Input: AC 100- 240V;50/60Hz Output: DC 24V 5A	EN 60335-1 EN 62233 UL 62368	TUV R 50487657 UL E496336

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Power Plug	SHEN ZHEN DING CHENG ELECTRONIC CO.,LTD	DC-03	AC125V;10A	UL817	UL E229387
Alt.oren Andr	Ching Cheng Wire Material Co., Ltd.	EL-302	AC125V; 10A	UL817	UL E88446SP
Connector	SHEN ZHEN DING CHENG ELECTRONIC CO.,LTD	DC-07	AC125V;10A	UL817	UL E229387
Alt. Moores Anbor	CHING CHENG WIRE MATERIAL CO., LTD.	EL-701A	AC125V; 10A	UL817	UL E88446SP
Power Supply Cord	SHEN ZHEN DING CHENG ELECTRONIC CO.,LTD	SJT Anborek	18AWG	UL62	UL E251670
Alt. Anborek	CHING CHENG WIRE MATERIAL CO.,LTD	SJT	18AWG	UL62	UL E162604

Supplementary information:

28.1 TABLE: Thread	led part torque test	Lek abotek Anbr	Amer P An		
Threaded part identification:	Diameter of thread (mm)	Column number (I, II, or III)	Applied torque (Nm)		
Screw for enclosure	3.89	abotek II Anbor	1.2		
Anbore And Lotek	Anbotek Anbo	Anbotek Anbote	And wotek Anbotek		
Supplementary information:	Anbotek Anbo.	k botek Anbote,	And otek unbote		

29.1	TABLE: Clearances					Anbe P
untek l	Overvoltage catego	r y		: IIn work	Anbotek	Anbo
			Type of i	nsulation:		
Rated impulse voltage (V	Min. cl (mm)):	Basic (mm)	Supplementar y (mm)	Reinforced (mm)	Functional (mm)	Verdict / Remark
330	0,2* / 0,5 / 0,8**	anbu .ek	abotek	Anbore	in wotek	Anbotek Anb
500	0,2* / 0,5 / 0,8**	Pupor	at botek	Anborer	Ano	Anbotek P
800	0,2* / 0,5 / 0,8**	Aupor	At hotek	Anboten	Anu	L nbotek
1 500	0,5 / 0,8** / 1,0***	K An	porter Arris	ek anbote	Aupo	-ek spotek
2 500	1,5 / 2,0***	>2,0	>2,0	stek - nab	>2,0	P hotel
4 000	3,0 / 3,5***	wotek	Anboten Ar	>4,0	abotek P	P
6 000	5,5 / 6,0***	.ex	abotek	ANDO	Lotek	Anboro Ant

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	8 000	8,0 / 8,5***	And otek	Anbotek	Anbor	botek	Anbote	Aun
20,	10 000	11,0 / 11,5***	And	k abotek	Anbor	p Lotek	Anboten	Þ.

Supplementary information:

*) For tracks on printed circuit boards if pollution degree 1 and 2 **) For pollution degree 3

*) If the construction is affected by wear, distortion, movement of the parts or during assembly

Working voltage (V):				epage dis (mm) ollution de							
	1		2			3			Type o sulatio		
		Ма	aterial g	roup	Ма	terial g	roup				
		I	II	IIIa/IIIb	I	II	IIIa/IIIb*	B **	S**	R**	Verdict
≤50	0,18	0,6	0,85	1,2 🕅	1,5	1,7	o ^{ve} *1,9	Anbote	—	—	Helk
≤50 solet	0,18	0,6	0,85	1,2	1,5	1,7	1,9		ter.		. otek
≤50 Moore	0,36	1,2	1,7	2,4	3,0	3,4	3,8		—	1	no- otek
125 MID	0,28	0,75	1,05	1,5	1,9	2,1	2,4	K			AND
125	0,28	0,75	1,05	1,5	1,9	2,1	2,4		An		Anbe
125	0,56	1,5	2,1	3,0	3,8	4,2	4,8			Anbote	e Pl
250	0,56	1,25	1,8	2,5	3,2	3,6	4,0	Х	—		P
250	0,56	1,25	1,8	2,5	3,2	3,6	4,0		Х		ibote ^k
250	1,12	2,5	3,6 🕨	5,0	6,4	7,2	8,0			×X	AnbPiek
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3				onbo ¹
400	1,0	2,0	2,8	4,0	5,0	5,6	6,3		Ant		
400	2,0	4,0	5,6	8,0	10,0	11,2	12,6			"up	elt.
500	1,3	2,5	3,6	o ^{te} 5,0 👔	6,3	7,1	8,0	Anbo		_	Helt
500	1,3	2,5	3,6	5,0	6,3	7,1	8,0		poter		po.
500	2,6	5,0	7,2	10,0	12,6	14,2	16,0		_	4	Aupor
>630 and ≤800	1,8	3,2	4,5	6,3	8,0 🔊	9,0	10,0	tek.			Aupor
>630 and ≤800	1,8	3,2 🕅	4,5	6,3	8,0	9,0	10,0				An
>630 and ≤800	3,6	6,4	9,0	12,6	16,0	18,0	20,0		—	nibot	10th
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	AUR			potek
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5		*eX		npotek
>800 and ≤1000	4,8	8,0	11,2	16,0	20,0	22,0	25,0				abote
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	101		_	Par
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0		P		r bar

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>1000 and ≤1250	6,4	10,0	14,2	20,0	25,0	28,0	32,0			nbote.	Aur
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	*oo*		—	1
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0		otek		oter
>1250 and ≤1600	8,4	12,6	18,0	25,0	32,0	36,0	40,0				Anboten
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	N			Anbote
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0		Pur.		Anbr
>1600 and ≤2000	11,2	16,0	22,0	32,0	40,0	44,0	50,0			. of	14 D
>2000 and ≤2500	7,5	10,0	14,0	20,0 🕅	25,0	28,0	32,0	Anbore			dek.
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0		Offer.		Notek
>2000 and ≤2500	15,0	20,0	28,0	40,0	50,0	56,0	64,0		_		Inpo stek
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	e¥-		—	Aupo
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0		0.5		Anbo
>2500 and ≤3200	20,0	25,0	36,0	50,0	64,0	72,0	80,0	_	_	Anbote	P1
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	bu.			oten
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	_	Lotek		nbotek
>3200 and ≤4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0			sk-	Anbotek
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0				nbot
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	_	P.C.		
>4000 and ≤5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0			Ann	ek.
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	Anbo			
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0		poter		100°
>5000 and ≤6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0			5	Anboi
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	hek			Aupor
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	_			AUL
>6300 and ≤8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0			nbo	6M
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	Ann			potek
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0			_	nbotek
>8000 and ≤10000	64,0	80,0	112,0	160,0	200,0	220,0	250,0			Xek	abote
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	oter	_	_	p
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0		P	_	24 P.U.
>10000 and ≤12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0			Pupe	. et
Pr Pr		601	pin	1. C	doh	24	9.7		105		000

Supplementary information:

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

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

29.2

TABLE: Creepage distances, functional insulation

P

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Working voltage (V):			Cre Po					
	1	2			3			
		Ма	Material group			terial g	roup	
		I	II	IIIa/IIIb	I	II	IIIa/IIIb*	Verdict / Remark
≤10	0,08	0,4	0,4	0,4	1,0 _{ا الم}	1,0	1,0	At hotek Ant
50	0,16	0,56	0,8	1,1	1,4	1,6	1,8 📦	both Ann hotek
125	0,25	0,71	1,0	1,4 🕅	1,8	2,0	2,2	Anbore k Ant Sotek
250 model	0,42	1,0	1,4	2,0	2,5	2,8	3,2	Anbore P Ant otek
400	0,75	1,6	2,2	3,2	4,0	4,5	5,0	Anboten Anos
500	1,0	2,0	2,8	4,0	5,0	5,6	6,3	ek Anbotek Anbo
>630 and ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	otek Anbotek Anbi
>800 and ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	otek unbotek A
>1000 and ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	And otek unbotek
>1250 and ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	Anbo otek unbotek
>1600 and ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	Anbo stek anbotek
>2000 and ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	Anbo tek nbo
>2500 and ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	otek Anbo ek
>3200 and ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	unbotek Anbo ek
>4000 and ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	Anbotek Anbot
>5000 and ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	Anborek Anbore
>6300 and ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	k unbotek Anbot
>8000 and ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	stek unbotek Anbo
>10000 and ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	stek nbotek An

Supplementary information:

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

30.1	TABLE: Ball P	ressure Test of Thern	noplastics		P
Allowed im	pression diame	eter (mm):	ek Anboro An	hotek Anbotek	
Object/ Pa	rt No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diam	eter (mm)
Switch	inbote Anu	tek subotek	125	1.0	stek
Plastic encl	losure	- tek sobotek	75	0.9	Anbourek
Supplemen	tary information:	Anbor otek Anborek	Anboren Anos	tek Anbotek	Anboy

30.2

TABLE: Resistance to heat and fire - Glow wire tests

PAno

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Material /	Manufacturer							
	1	550	650		7	750	050	Verdict
	trademark	550	te	ti	te	ti	850	
Switch	nu set	tootek.	AUPO.	K - 1	otek 0	Inbore 0	An- tek	Rotek
Plastic enclosure	Anbotek	Anb Xek	Halpon	otek An	Anbotek	Anbotek	Anboth	K P Anbot
Object/ N Part No./ Material	Manufacturer / trademark	Glow		mmability 'FI), °C	GW ignition temp. (GWIT), °C		Verdict	
		550	650	750	850	675	775	
Lotek Al	looker Aun	*et	abotek	Pupo.	Pr.	Lotek	Anboten	Ann
untek.	Anboten An	po.	protecte	r pink	0101	Anthek	Anbotek	Anbo
Anto	hnbotek.	Anbois	Prov	otek I	nboren	And	nbote	e Aupor
The test spec	imen passed the	e glow wire	e test (GV	VT) with no	ignition [(te – ti) ≤ 2s]	(Yes/No):	otek Yes Anto
If no, then sur	rounding parts p	assed the	e needle-f	lame test o	of annex E	: (Yes/No)	·····	No
	imen passed the wire (Yes/No)?.							No
Ignition of the	specified layer	olaced und	derneath	the test sp	ecimen (Y	es/No)	dipote ^k	No
- NOPOL-	pi.	hoter	Prior		Net	NOPO1-	p.v.	- note

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- fla	ame test (N	IFT)	stek	nbote	K Pi	nbo.	p.	NevoteN
Object/ Part No./ Material		Manufacto trademari		Duration applicatio test flame (t	n of	Igniti specifie Yes	ed layer	Duration of burning (tb) (s)		Verdi t
Anbotel	P.D	lov rek	abotek	Anbore	Pres	wotek	Anboten	PU	V ₉₄	1
rek unbr	hek.	anbo, wek	p. botek	Anbore	P.S	in otek	Anbo	ek	Pupo.	1

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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Attachment 1: Photo documentation





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