

Report No.: 58250SC10028101

# Test Report

ZHEJIANG YOUQI TECHNOLOGY CO., LTD. Client Name

No.229, Dongda Street, Shanshi, Daxi town, Wenling Address

City, Zhejiang Province

**Product Name Electric Scooter** 

Sept. 26, 2021 Date

Compliance Laboration Anbotek Anbotek (Guangzhou) Compliance Laboratory Limited \* Approved \*



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

 Report Number.
 58250SC10028101

 Date of issue
 Sept. 26, 2021

Total number of pages...... 102 pages

Name of Testing Laboratory

preparing the Report...... Anbotek (Guangzhou) Compliance Laboratory Limited

Applicant's name...... ZHEJIANG YOUQI TECHNOLOGY CO., LTD.

**Zhejiang Province** 

Test specification:

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:

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

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Tested by (name, function, signature):	Clearloveq Zheng Project Engineer	clearlovez zhong
Approved by (name, function, signature):	Terry Tian Project Manager	Tany The



Test item description....:: Electric Scooter

Trade Mark....:: **UKAYE** 

ZHEJIANG YOUQI TECHNOLOGY CO., LTD. Manufacturer .....:

Model/Type reference .....: U2, U3, U5

Input: 42V===, 2A Ratings....::

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

Attachment 1: EU difference

Attachment 2: Photo documentation

#### Summary of testing:

#### Tests performed (name of test and test clause):

The submitted samples were found to comply with the requirements of:

EN 60335-1:2012+A11:2014+A13:2017

+A1:2019+A2:2019+A14:2019

EN 62233:2008

#### Testing location:

Anbotek (Guangzhou) Compliance Laboratory Limited

Room.508, Building.2, No.232, Kezhu Road, Science City, Guangzhou Economic & Technology Development Area, Guangzhou, Guangdong, China

#### 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.

#### **Electric Scooter**

Model: U2

Input: 42V==. 2A

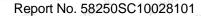
IP54

ZHEJIANG YOUQI TECHNOLOGY CO., LTD.

No.229, Dongda Street, Shanshi, Daxi town, Wenling City, Zhejiang Province









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	Electric Scooter
Classification of installation and use:	portable appliances
Supply Connection:	DC inlet
obore Ann Hotek Anbe	
Possible test case verdicts:	nbotek Anbote Anbote Anbote
- test case does not apply to the test object	N Anbotek Anbotek Anb
- test object does meet the requirement	P (Pass)
- test object does not meet the requirement:	F (Fail)
Testing:	Anbore And tek anborek Anbor
Date of receipt of test item:	
Date (s) of performance of tests	Aug. 18, 2021 to Aug. 24, 2021
General remarks:	And tek anbotek Anbo ak
"(See appended table)" refers to a table appended to temperate the second of the seco	inbo And atek anbote And ak
Name and address of factory (ies)	ZHEJIANG YOUQI TECHNOLOGY CO., LTD.
Name and address of factory (ies)	No.229, Dongda Street, Shanshi, Daxi town,
Name and address of factory (ies)	
Name and address of factory (ies)	No.229, Dongda Street, Shanshi, Daxi town,
Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	No.229, Dongda Street, Shanshi, Daxi town, Wenling City, Zhejiang Province
General product information:  If no otherwise specified, all tests were performed on	No.229, Dongda Street, Shanshi, Daxi town, Wenling City, Zhejiang Province  model U2.
General product information:	No.229, Dongda Street, Shanshi, Daxi town, Wenling City, Zhejiang Province  model U2.
General product information:  If no otherwise specified, all tests were performed on	No.229, Dongda Street, Shanshi, Daxi town, Wenling City, Zhejiang Province  model U2. earance. harger.

# **Shenzhen Anbotek Compliance Laboratory Limited**

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Pupole	An Ancorek Anbor Andre	K Anboten Anbu	, abott
a Amboten	IEC 60335-1	tek Anbotek Anbo.	F
Clause	Requirement + Test	Result - Remark	Verdict
5	GENERAL CONDITIONS FOR THE TESTS	Apo, Pr.	187
-01-	Tests performed according to clause 5, e.g. nature	by. " "Ofer p	,%° D
nboro	of supply, sequence of testing, etc.	Amboten Ambo	anbotek
6	CLASSIFICATION		
6.1	Protection against electric shock: Class 0, 0I, I, II, III:	Class II	P
sek Au	For a class III construction with a detachable power supply part the appliance is classified according to the detachable power supply part	Aupotek Aupotek Aupo	botek
6.2	Protection against harmful ingress of water	IP54	Anb Pan
7	MARKING AND INSTRUCTIONS		
7.1 Anbox	Rated voltage or voltage range (V):	See page 3	P
Anbore	Symbol for nature of supply, or:	See page 3	P P
ek ant	Rated frequency (Hz):	otek Anbotek Anbo	N
-otek	Rated power input (W), or:	Vunner Parker Vin	N
, ok	Rated current (A):	See page 3	Anboles
Anbotek	Manufacturer's or responsible vendor's name, trademark or identification mark	See page 3	NP <sup>ole</sup>
Anbore	Model or type reference:	See page 3	Р
ek ont	Symbol IEC 60417-5172, for class II appliances	Symbol on AC/DC charger	Р
401-	IP number, other than IPX0:	See page 3	Posses B
anbotek	Symbol IEC 60417-5180, for class III appliances, unless	Anbotek Anbotek	Anbo'N
anbotek	the appliance is operated by batteries only, or	K hotek Nupotes	N
Anbore	for appliances powered by rechargeable batteries recharged in the appliance	sotek Anbotek Anboten	b <sub>up</sub>
ek Anb	Symbol IEC 60417-5018, for class II and class III appliances incorporating a functional earth	Anbotek Anbotek An	otek N
Anbotek Anbotek	Symbol IEC 60417-5036, for the enclosure of electrically-operated water valves in external hosesets for connection of an appliance to the water mains, if the working voltage exceeds extra-low voltage	Anbotek Anbotek Anbotek Anbotek	Amborel Amborel
7.2	Warning for stationary appliances for multiple supply	potek Aupotek Vupot	N P

# Anbotek (Guangzhou) Compliance Laboratory Limited

Warning placed in vicinity of terminal cover

upper limits separated by a hyphen

Range of rated values marked with the lower and

7.3



or bupo,	IEC 60335-1	tek Aurola vu	
Clause	Requirement + Test	Result - Remark	Verdic
/r	Jorek Amores And And Jorek	abore An	10/
iter An	Different rated values marked with the values separated by an oblique stroke	Anbotek Anbo hotek A	Nipotedia
7.4	Appliances adjustable for different rated voltages or rated frequencies, the voltage or the frequency setting is clearly discernible	Anbotek Anbotek	Anb Note
Anbot Anbot	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	ipotek Anbotek Anbotek	N <sub>An</sub> i
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 Arbotek	Anbotek Anbotek
Anbor	the power input or current are related to the arithmetic mean value of the rated voltage range	otek Anbotek Anbotek	N <sub>Art</sub> io
tek Anh	Relation between marking for upper and lower limits of rated power input or rated current and voltage is clear	Anbotek Anbotek Anbo	N
7.6	Correct symbols used	And stek subotek	Aupo P
Anbotek	Symbol for nature of supply placed next to rated voltage	ek Anbotek Anbotek	MP
Anborr	Symbol for class II appliances placed unlikely to be confused with other marking	potek Anbotek Anbot	P
polek Vu	Units of physical quantities and their symbols according to international standardized system	Anborek Anborek An	N <sup>ASTOO</sup>
7.7	Connection diagram fixed to appliances to be connected to more than two supply conductors and appliances for multiple supply, unless	Anbotek Anbotek	Anborel
abote	correct mode of connection is obvious	-k hotek Anbotek	$N_{u_{\Sigma}}$
7.8	Except for type Z attachment, terminals for connection indicated as follows:	on to the supply mains	otek I
potek !	- marking of terminals exclusively for the neutral conductor (letter N)	Anbotek Anbotek An	Anbot N.
Anbotek	- marking of protective earthing terminals (symbol IEC 60417-5019)	k Anbotek Anbotek	AL N. Ley
Anbore	- marking of functional earthing terminals (symbol IEC 60417-5018)	otek Anbotek Anbotes	N
PUP.	- marking not placed on removable parts	Pupotek Vupos Num	N You
7.9	Marking or placing of switches which may cause a hazard	Anbotek Anbotek Ant	AnboteN
7.10	Indications of switches on stationary appliances and controls on all appliances by use of figures, letters or other visual means:	k Aupotek Aupotek	An'N'es



100,0	IEC 60335-1	y niek Anbo.	b.
Clause	Requirement + Test	Result - Remark	Verdic
Ville	ak hotek Anbo, Ar. tek	aboren Anb	101
iek Vi	This applies also to switches which are part of a control	Amborek Ambore Amb	Nistodi
anbotek	If figures are used, the off position indicated by the figure 0	Anborek Anborek	Anb Nok
Anbotek	The figure 0 indicates only OFF position, unless no confusion with the OFF position	lek Anbotek Anbotek	N
7.11 Anbo	Indication for direction of adjustment of controls	botek Anbote Ant	N V
7.12	Instructions for safe use provided	botok Anbotos Ans	P
ipotek	Details concerning precautions during user maintenance	Anbotek Anbotek Ar	Panbotok
Vupo.	The instructions state that:	Aupor Aug Otok	AUDO,
Anbol Anbol	- 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	botek Anbotek Anbotek Anbotek Anbotek	P <sub>Ari</sub>
potek	- children being supervised not to play with the appliance	Anbotek Anbotek	<sup>Aupo</sup> P <sup>k</sup>
Anbotek Anbot	For a part of class III construction supplied from a detachable power supply unit, the instructions state that the appliance is only to be used with the unit provided	ek Anbotek Anbotek	AP <sup>O</sup> Ant
ek Vu	Instructions for class III appliances state that it must only be supplied at SELV, unless	Anbotek Anbotek An	ootek-N
Anbotek	it is a battery-operated appliance, the battery being charged outside the appliance	Anbotek Anbotek	Anbo'N
Anbotok	For appliances for altitudes exceeding 2000 m, the maximum altitude is stated:	ak Anbotek Anbotek	N Anb
ak Ant	The instructions for appliances incorporating a functional earth states that the appliance incorporates an earth connection for functional purposes only	Anbotek Anbotek Anbotek Anbot	otok N
7.12.1	Sufficient details for installation supplied	hotek Anboten	Anda P. el
Anbotek	For an appliance intended to be permanently connected to the water mains and not connected by a hose-set, this is stated	Anbotek Anbotek	N
ek Anb	If different rated voltages or different rated frequencies are marked, the instructions state what action to be taken to adjust the appliance	Anbotek Anbotek Anbote	N

Tel:(86) 20-82575737 Email: service.gz@anbotek.com



botek	Anbo. A. Alek	IEC 60335-1	K ofok	anbore And
Clause	Requirement + Test	nbotek Ant	Result - Remark	Verdi
7.12.2	Stationary appliances not fitted with disconnection from the supply material contact separation in all poles the disconnection under overvoltage instructions state that means for must be incorporated in the fixed accordance with the wiring rules	ains having a at provide full category III, the disconnection	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek Anbotek Anbotek
7.12.3	Insulation of the fixed wiring in co exceeding 50 K during clause 11 that the fixed wiring must be prote	; instructions state	Protek Vupotek	Anbote N
7.12.4	Instructions for built-in appliances	S: Aupo	abotek Anbote	No. No.
anbolek	- dimensions of space	otek Anber	s botek And	Ana N
aborek	- dimensions and position of supp	porting and fixing	ok notek	inbotal M
Anbore	- minimum distances between pa surrounding structure	rts and	potek Aupotek	Anbotek Na
sk Aut	- minimum dimensions of ventilat arrangement	ing openings and	Anbotek Anbotes	ArbotekN ArbotekN
Aupotek Aupotek	- connection to supply mains and separate components	interconnection of	Aupotek Aup	stek AnboN
Anbotek Anbote	- allow disconnection of the application, by accessible plug or fixed wiring, unless		otek Anbotek	Anbotek An
ik ant	a switch complying with 24.3	Anbores A	stek vopotek	hupo, N
.12.5	Replacement cord instructions, ty with a specially prepared cord	pe X attachment	Anbotek Anbotek	Anboro N
Aupoten	Replacement cord instructions, ty	pe Y attachment	Anbotok Anbo	N
anbotok	Replacement cord instructions, ty	pe Z attachment	ek apolok N	N Area
7.12.6	Caution in the instructions for apprince incorporating a non-self-resetting that is reset by disconnection of this cut-out is required to comply	thermal cut-out he supply mains, if	botek Anbotek Anbotek Anbotek	Anbore N
'.12.7	Instructions for fixed appliances s appliance is to be fixed	stating how the	Anbores Anbor	anbo'N'
'.12.8	Instructions for appliances conne	cted to the water m	nains:	Pull William
hotel.	- max. inlet water pressure (Pa)		Aug Wek	Anbotek Na
Press.	- min. inlet water pressure, if nece	essary (Pa):	Poles Vupo	nbotek N
otek b	Instructions concerning new and appliances connected to the water detachable hose-sets		Anbotek Anbotek	ek antotek N
7.12.9	Instructions specified in 7.12 and 7.12.8 appear together before an instructions supplied with the app	y other	arbotek Anbo	botek Ant Ne



, boiek	IEC 60335-1	Total Aubore	Dille
Clause	Requirement + Test	Result - Remark	Verdict
Arra	Totak Anhotek Anhor Ak Mitak	aboles Anbo	iek.
ntotek An	These instructions may be supplied with the appliance separately from any functional use booklet	Anbotek Anbotek An	ibotel N
Anbotek	They may follow the description of the appliance that identifies parts, or follow the drawings/sketches	Anbotek Anbotek	Anbore Anbore
Anbot	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	lek Aupotek Aupotek	N <sub>Ant</sub>
<sup>upotek</sup>	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	ibote <sup>k</sup> N
7.13	Instructions and other texts in an official language	Aupoles Aug	Pote
7.14	Markings clearly legible and durable:	tek Aupoter Aupo.	
Anboli	Signal words WARNING, CAUTION, DANGER in uppercase having a height as specified	botek Anboten Anbo	P P
upotek Ar.	Uppercase letter of the text explaining the signal word not smaller than 1,6 mm	Anbotek Anbotek Ar	ootekP
Anbotek	Moulded in, engraved, or stamped markings either raised above or have a depth below the surface of at least 0,25 mm, unless	ek Anbotek Anbotek	Anbore
Mode	contrasting colours are used	sek botek Anboten	PARIS
iek Au	Markings checked by inspection, measurement and rubbing test as specified	por Anbotek Anbot	P
7.15	Markings on a main part	botek Anbote An	P
Anbotek	Marking clearly discernible from the outside, if necessary after removal of a cover	Anbotek Anbotek	Anbotel
Anbore	For portable appliances, cover can be removed or opened without a tool	ak Anbotek Anbotek	Panbo
ek Ant	For stationary appliances, name, trademark or identification mark and model or type reference visible after installation	Anbotek Anbotek Anbot	N A
Anbotek	For fixed appliances, name, trademark or identification mark and model or type reference visible after installation according to the instructions	Anbotek Anbotek	Anbotek
ek Anbote	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	otek Anbotek Anbotek	N <sup>NO</sup>
poter !	The symbol IEC 60417-5018 placed next to the symbol IEC 60417-5172 or IEC 60417-5180	Anbotek Anbotek	unbot P.
7.16	Marking of a possible replaceable thermal link or fuse link clearly visible with regard to replacing the link	k Vupotek Vupotek	An Nicol

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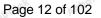


hotek.	Anboren Anbo	IEC 60335-1	V. V. Olek	anbotek	Vupo.
Clause	Requirement + Test	abotek Ant	Result - Remark	anbotek	Verdict

8	PROTECTION AGAINST ACCESS TO LIVE PARTS	S	
8.1	Adequate protection against accidental contact with live parts	Anbotek Anbotek	Anbolek Anbolek
8.1.1	Requirement applies for all positions, detachable parts removed	Anbotek Anbotek	Potel
k Anbo	Lamps behind a detachable cover not removed, if conditions met	botek Anbotek Anbote	Namb
otek A	Insertion or removal of lamps, protection against contact with live parts of the lamp cap	Anbotek Anbotek An	NootekN
anbotok	Use of test probe B of IEC 61032, with a force not exceeding 1 N: no contact with live parts	Aupo, Will Williams	Anb Pan
Anbotek Anbot	Use of test probe B of IEC 61032 through openings, with a force of 20N: no contact with live parts	ek Anbotek Anbotek	P Ambo
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 Anbo	P Anbotek
Anbotek	Test probe 13 also applied through openings in earthed metal enclosures having a non-conductive coating: no contact with live parts	ok Anbotek Anbotek	Anbo
8.1.3	For appliances other than class II, use of test probe 41 of IEC 61032, with a force not exceeding 1 N: no contact with live parts of visible glowing heating elements or supporting parts	Anbotek Anbotek Anbo	ok N Ar
Anbotek	For a single switching action obtained by a switching device, requirements as specified	Anbotek Anbotek	Anbotek
Anbo	For appliances with a supply cord and without a switching device, the single switching action may be obtained by the withdrawal of the plug	otek Anbotek Anbotek	Panbol
8.1.4	Accessible part not considered live if:	abolek Anbols An	- 491 <sub>0</sub>
ipotek	- safety extra-low a.c. voltage: peak value not exceeding 42.4 V	Ambotek Ambotek Am	Ambot N.
Anbotek	- safety extra-low d.c. voltage: not exceeding 42.4 V	k anbotek Anbotek	An P rest
Anboth	- or separated from live parts by protective impedance	otek Anbotek Anbote	N An
potek Vu	If protective impedance: d.c. current not exceeding 2 mA, and	Anbotek Anbotek An	otek N
-otek	a.c. peak value not exceeding 0.7 mA	Aug. Toolek	AuporeN .
Anbotek	- for peak values over 42.4 V up to and including 450 V, capacitance not exceeding 0,1 μF	k Anbotek Anbotek	An'N'



-b0 <sup>†8</sup> h	IEC 60335-1	work anbore	Dire
Clause	Requirement + Test	Result - Remark	Verdic
Ville	Tok potek Aupo, A. tek	aboles Anb	rek
itek Ar	- for peak values over 450 V up to and including 15 kV, discharge not exceeding 45 μC	Anbotek Anbotek Ans	N <sub>lototol</sub>
nbotek	- 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	re installation or assembly:	Puga
logic	- built-in appliances	K hotek Anbotek	N
Pro-	- fixed appliances	ipolos Anto	N
10. 00	- appliances delivered in separate units	Anbotes Anbo	N <sup>les</sup> tod
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 Anbotek  Anbotek Anbotek	Anbo <sup>P</sup> <sup>k</sup> Anbo <sup>k</sup>
rek Ant	Only possible to touch parts separated from live parts by double or reinforced insulation	botek Anbotek Anbot	е <sup>№</sup> Р
9	STARTING OF MOTOR-OPERATED APPLIANCES	3	
Anbotek	Requirements and tests are specified in part 2 when necessary	Anbotek Anbotek	AnboN hore
10	POWER INPUT AND CURRENT		
10.1	Power input at normal operating temperature, rated voltage and normal operation not deviating from rated power input by more than shown in table 1:	(see appended table)	N
Anbotek 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  Anbotek Anbotek  Anbotek Anbotek	N
ek Ant	Otherwise the power input is the arithmetic mean value	Anbotek Anbotek Anbo	otek N
Aupotek Do.	Test carried out at upper and lower limits of the ranges for appliances with one or more rated voltage ranges, unless	Anbotek Anbotek	Anbo'N
Anbore	the rated power input is related to the arithmetic mean value	tek anbotek Anbotek	Natio
10.2	Current at normal operating temperature, rated voltage and normal operation not deviating from rated current by more than shown in table 2:	(see appended table)	P I





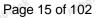
-botel	IEC 603	335-1	k ntek anbore	Vien
Clause	Requirement + Test	k Anb	Result - Remark	Verdic
nbotek Anbotek Anbotek	If the current varies throughout the operat and the maximum value of the current exc a factor greater than two, the arithmetic m of the current occurring during a represent period, the current is the maximum value exceeded for more than 10 % of the representation.	ceeds, by ean value tative that is	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	botek Anbotek Anbotek
Pupo	Otherwise the current is the arithmetic me	an value	potek Anbores Ane	o⊮ N
ipotek Ar	Test carried out at upper and lower limits ranges for appliances with one or more ravoltage ranges, unless		Anbotek Anbotek Anb	(botek
	the rated current is related to the arithmetivalue of the range	ic mean	Anbotak Anbotak	Ambot
11	HEATING			
11.1	No excessive temperatures in normal use	*e/-	botek Anbor An	P P
11.2	The appliance is held, placed or fixed in p described		Anbotek Anbotek Ans	otekP
11.3	Temperature rises, other than of windings determined by thermocouples	Anbotek	Vupotek Vupotek	Anbopen
Ambotek	Temperature rises of windings determined resistance method, unless	by Maria	ok Anbotek Anbotek	Р
ek Ano	the windings are non-uniform or it is difficumake the necessary connections	ult to	ootek Anbotek Anbo	P
11.4	Heating appliances operated under normal operation at 1.15 times rated power input		Anbotek Anbotek Ar	por N
11.5	Motor-operated appliances operated under operation at most unfavourable voltage be 0.94 and 1.06 times rated voltage (V)	etween	ak Anbotek Anbotek	Anbor
11.6	Combined appliances operated under nor operation at most unfavourable voltage be 0.94 and 1.06 times rated voltage (V)	etween	potek Anbotek Anbo	otek N
11.7	Operation duration corresponding to the nunfavourable conditions of normal use	nost	Anbotek Anbotek Ar	Anbotek.
11.8	Temperature rises monitored continuously exceeding the values in table 3		(see appended table)	AUD.
Anbore	If the temperature rise of a motor winding the value of table 3, or	exceeds	otek Anbotek Anbote	P. P.
otek Vu	if there is doubt with regard to classification insulation,	n of	Anbotek Anbotek An	N Yero
mojek	tests of Annex C are carried out	Anboren	And sek abotek	<sup>rupol</sup> N
Vun Viek	Sealing compound does not flow out	Anborek	Anbo. Lok Abotek	PUN.
Anbo	Protective devices do not operate, except	Not.	k Aupo, Ar.	N



Aupo)	IEC 60335-1	tek antole, and	
Clause	Requirement + Test	Result - Remark	Verdict
orek An	components in protective electronic circuits tested for the number of cycles specified in 24.1.4	Anbotek Anbotek Anb	N
13	LEAKAGE CURRENT AND ELECTRIC STRENGTH TEMPERATURE	H AT OPERATING	
13.1	Leakage current not excessive and electric strength adequate	lek Aupotek Vupotek	P
tek vupo.	Heating appliances operated at 1.15 times the rated power input (W):	Potek Vipolek Vipo	N %
hotek hotek	Motor-operated appliances and combined appliances supplied at 1.06 times the rated voltage (V):	Anbotek Anbotek	hore P Anborek
Anbotek	Protective impedance and radio interference filters disconnected before carrying out the tests	lek Anbotek Anbotek	NB <sub>010</sub>
13.2	The leakage current is measured by means of the circuit described in Figure 4 of IEC 60990:1999	botek Anbotek Anbo	ek P
hbotek Air	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 Ar	ootek Anbotek
Anbo	Leakage current measurements:	(see appended table)	Poten
13.3	The appliance is disconnected from the supply	ak Anbore And	Ponto
Aupor	Electric strength tests according to table 4:	(see appended table)	P
iek ant	No breakdown during the tests	otek anbotek Anbo	Р
14	TRANSIENT OVERVOLTAGES	1.0	
Anborek	Appliances withstand the transient over-voltages to which they may be subjected	Anbotek Anbotek	Anbo N
Anbore	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
ek Anb	No flashover during the test, unless	botek Anboten Anbo	N N
potek	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	otek Anbotek Anbotek	Panbol
potek Anb	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 Anh	otek P
Anbotek	No trace of water on insulation which can result in a reduction of clearances or creepage distances below values specified in clause 29	k Anbotek Anbotek	Prek

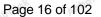


botek	IEC 60335-1	work unbore.	Vur
Clause	Requirement + Test	Result - Remark	Verdict
Ville	ok bolek Anbo, Ar. tek	abolen Anb	197
15.1.1	Appliances, other than IPX0, subjected to tests as specified in IEC 60529:	Anbotek Anbotek Anb	nbotelP
Anbotek	Water valves containing live parts in external hoses for connection of an appliance to the water mains tested as specified for IPX7 appliances	Anbotek Anbotek	Anbote
15.1.2	Hand-held appliance turned continuously through the most unfavourable positions during the test	otek Anbotek Anbotek	N <sub>prol</sub>
lok W	Built-in appliances installed according to the instructions	Anbotek Anbotek Anbo	N
hotek	Appliances placed or used on the floor or table placed on a horizontal unperforated support	Anbotek Anbotek	Will Wa
Anbotek	Appliances normally fixed to a wall and appliances with pins for insertion into socket-outlets are mounted on a wooden board	otek Anbotek Anbotek	No.
tek V.	For IPX3 appliances, the base of wall mounted appliances is placed at the same level as the pivot axis of the oscillating tube	Anbotek Anbotek Anbo	e <sup>k</sup> N
Vupotek In.	For IPX4 appliances, the horizontal centre line of the appliance is aligned with the pivot axis of the oscillating tube, and	Anbotek Anbotek	Anbote Anbote
Anbot Anbot	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	nbotek Anbotek Anbotek	N <sub>i</sub> nt
potek potek	Wall-mounted appliances, take into account the distance to the floor stated in the instructions	Anbotek Anbotek An	N.
Anbotek Anbot	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	tak Anbotek Anbotek	Anb
otek An	for IPX4 appliances, the movement of the tube is limited to two times 90° from the vertical for a period of 5 min	Anbotek Anbotek Anbot	otek P
Anbotek	Appliances with type X attachment fitted with a flexible cord as described	Aupotek Aupotek	Anborel
Anbor	Detachable parts subjected to the relevant treatment with the main part	ek Anbotek Anbotek	Nanb
otek Ant	However, if a part has to be removed for user maintenance and a tool is needed, this part is not removed	Anbotek Anbotek Anbote	otek N
15.2	Spillage of liquid does not affect the electrical insulation	Anbotek Anbotek	inpo, N
Anbore.	Spillage solution comprising water containing approximately 1 % NaCl and 0,6 % rinsing agent	ek Anbotek Anbo	N



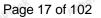


bojek	IEC 60335-1	k work anbore	Viir
Clause	Requirement + Test	Result - Remark	Verdic
lek V	Appliances with type X attachment fitted with a flexible cord as described	Anborek Anborek Anbr	,botelN
Anbotek	Appliances incorporating an appliance inlet tested with or without an connector, whichever is most unfavourable	Anbotek Anbotek	Anb Pak
And	Detachable parts are removed	lek Anbo. A. hotek	Pan
rek Anbo	Overfilling test with additional amount of the solution, over a period of 1 min (I)	lpotek Aupoliotek Aupo	e <sup>k</sup> P
bolek	The appliance withstands the electric strength test of 16.3	Anbotek Anbotek A	looter P
Anbotek Anbotek	No trace of water on insulation that can result in a reduction of clearances or creepage distances below values specified in clause 29	ek Anbotek Anbotek	Anbot Anbot
15.3	Appliances proof against humid conditions	otek Anbotek Anbote	Р
lok bu	Checked by test Cab: Damp heat steady state in IEC 60068-2-78	Anbotek Anbotek Anbo	P
botek	Detachable parts removed and subjected, if necessary, to the humidity test with the main part	Anbotek Anbotek	Anbo Pk
Pur Polek	Humidity test for 48 h in a humidity cabinet	Anto tek hobotek	ΝP
Anbo	Reassembly of those parts that may have been removed	otek Anbotek Anbotek	Pari
ek ar	The appliance withstands the tests of clause 16	otek anbotek Anbo	Р
16	LEAKAGE CURRENT AND ELECTRIC STRENGTI	H	
16.1	Leakage current not excessive and electric strength adequate	Anbotek Anbotek	Anbo P
Anbotek	Protective impedance disconnected from live parts before carrying out the tests	sk Anbotek Anbotek	P Ant
ak An	Tests carried out at room temperature and not connected to the supply	sofek Anbotek Anbot	P P
16.2	Single-phase appliances: test voltage 1.06 times rated voltage (V)	Ambotek Anbotek An	P
Anborek	Three-phase appliances: test voltage 1.06 times rated voltage divided by √3 (V):	k hotek Anbotek	W. N. se
, bot	Leakage current measurements:	(see appended table)	Pup
k bo-	Limit values doubled if:	pore And stek sabote	<i></i>
, but	- all controls have an off position in all poles, or	Pupotes, Pupo, W.	otel <sup>k</sup> N
otek	- the appliance has no control other than a thermal cut-out, or	Anbotek Anbotek An	<sub>amb</sub> ot N
Anbotek	- all thermostats, temperature limiters and energy regulators do not have an off position, or	k Anbotek Anbotek	NON.



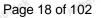


botek	IEC 60335-1	k notek anboten	AUD
Clause	Requirement + Test	Result - Remark	Verdic
bu.	Total Amorek Anbo. A. barek	abotel And	iek.
oten M	- the appliance has radio interference filters	anbotek Anbo. Air	N
,nbotek	With the radio interference filters disconnected, the leakage current do not exceed limits specified:	(see appended table)	Anbotek Anbotek
16.3	Electric strength tests according to table 7:	(see appended table)	Pote
Anbore	Test voltage applied between the supply cord and inlet bushing and cord guard and cord anchorage as specified: (see appended table)		P Ant
tok bu	No breakdown during the tests	abotek Anbote And	P
17	OVERLOAD PROTECTION OF TRANSFORMERS CIRCUITS	AND ASSOCIATED	
Anbotek Anbotek	No excessive temperatures in transformer or associated circuits in event of short-circuits likely to occur in normal use	(see appended table)	N of o
rek Ant	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 Anbo	ek N
horo	Basic insulation is not short-circuited	Anboten Anbe	N <sup>k</sup>
Anbotek Anbotek	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	ok Anbotek Anbotek	N
	Temperature of the winding not exceeding the value specified in table 8	Anbotek Anbotek Anbot	N P
	However, limits do not apply to fail-safe transformers complying with sub-clause 15.5 of IEC 61558-1	Anbotek Anbotek	AnborN.
18	ENDURANCE		
Anbore	Requirements and tests are specified in part 2 when necessary	otek Anbotek Anbota	N. N.
19	ABNORMAL OPERATION	307	
19.1	The risk of fire, mechanical damage or electric shock under abnormal or careless operation obviated	Anbotek Anbotek	Anbort P.
Anbore.	Electronic circuits so designed and applied that a fault will not render the appliance unsafe:	(see appended table)	Р
ek Aup	Appliances incorporating heating elements subjected to the tests of 19.2 and 19.3, and	botek Anbotek Anbote	N N
ootek Anbotek	if the appliance also has a control that limit the temperature during clause 11 it is subjected to the test of 19.4, and	Anbotek Anbotek Ant	Aupotek Stek
-otok	if applicable, to the test of 19.5	atek abotek	Pube



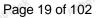


,botek	IEC 60335-1	k notek anbore	Vien
Clause	Requirement + Test	Result - Remark	Verdict
br.	tok shotek Anbo Arek	apoles. And	,ek
	Appliances incorporating PTC heating elements are also subjected to the test of 19.6	Anbotek Anbotek Anb	<sub>ibotek</sub> N
nbo.	Appliances incorporating motors subjected to the tests of 19.7 to 19.10, as applicable	Anbore Anbotek	Anb Pak
Anbotok	Appliances incorporating electronic circuits subjected to the tests of 19.11 and 19.12, as applicable	lek Anbotek Anbotek	Ant Ant
obotek An	Appliances incorporating contactors or relays subjected to the test of 19.14, being carried out before the tests of 19.11	Anbotek Anbotek Anbo	N botek N
Anbotok	Appliances incorporating voltage selector switches subjected to the test of 19.15	Ambotek Anbotek	Anbon N
Anboro.	Unless otherwise specified, the tests are continued until a non-self-resetting thermal cut-out operates, or	Potek Anbotek Anbotek	N Anb
lek Vul	until steady conditions are established	hotek Anbote Ans	-eNP
anbotek Anbotek	If a heating element or intentionally weak part becomes open-circuited, the relevant test is repeated on a second sample	Anbotek Anbotek As	N <sub>A</sub>
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):	ek Anbotek Anbotek	Anbr
19.3	Test of 19.2 repeated; test voltage (V), power input of 1.24 times rated power input (W):	Ambotek Ambotek Ambo	N P
19.4	Test conditions as in clause 11, any control limiting the temperature during tests of clause 11 short-circuited	Anbotek Anbotek	AnbolPk Anbolek
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	notek Anbotek Anbotek	N Anbo
botek	The test repeated with reversed polarity and the other end of the heating element connected to the sheath	Ambotek Anbotek An	Anbotek Anbotek
Anbotek Anbotek	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	ArN Anbo
19.6	Appliances with PTC heating elements tested at rated voltage, establishing steady conditions	Anbotek Anbote Ant	otek N





. doiek	Anbo	IEC 60335-1	we work anbore	Pur
Clause	Requirement + Test	abotek Anb	Result - Remark	Verdic
tek An	The working voltage of the PTG increased by 5% and the appli steady conditions are re-estab then increased in similar steps working voltage or until the PT ruptures (V)	ance is operated until lished. The voltage is until 1.5 times C heating element	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
19.7	Stalling test by locking the roto torque is smaller than the full lo		botek Anbotek Anbote	PAN
iek bu	locking moving parts of other a	ppliances	botek Anbote Ant	, eVP
ipotek	Locked rotor, capacitors open- time	circuited one at a	Anbotek Anboten	Anbotek
Anborek	Test repeated with capacitors a time, unless	short-circuited one at	Anbotek Anbotek	Pote
2001	the capacitor is of class S2 or	S3 of IEC 60252-1	-k wotek Anbote	Pani
ick Ant	Appliances with timer or progra rated voltage for each of the te equal to the maximum period a	sts, for a period	Anbotek Anbotek Anb	o' N
Anbotek Anbotek	An electronic timer or program ensure compliance with the tesmaximum period under the coil is reached, is a protective electronic time.	st before the nditions of Clause 11	Anbotek Anbotek	N
Anborr	Other appliances supplied with period as specified	rated voltage for a	potek Anbotek Anbot	P
potek bu	Winding temperatures not excespecified in table 8		(see appended table)	Р
19.8	Multi-phase motors operated a one phase disconnected	t rated voltage with	Anbotek Anbotek	N
19.9	Running overload test on appli motors intended to be remotely controlled or liable to be opera	or automatically	otek Anbotek Anbotek	N
Anbotek Anbotek	Motor-operated and combined 30.2.3 is applicable and that us protective devices relying on e protect the motor windings, are the test	se overload lectronic circuits to	Anbotek Anbotek Anbotek Anbotek	Р
Anbore	Winding temperatures not excespecified		(see appended table)	Р
19.10	Series motor operated at 1.3 ti 1 min (V)		obotek Anbotek Anbo	N
otek p	During the test, parts not being appliance	g ejected from the	Vupotek Vupotek V	N
19.11	Electronic circuits, compliance evaluation of the fault condition 19.11.2 for all circuits or parts	ns specified in	Aupotek Aupotek	Р





hotek	Ambon Am IEC	60335-1	w niek anboten	VUE
Clause	Requirement + Test	otek Anb	Result - Remark	Verdic
N VIII	lotok Ambotek Anbo. A.	-hotel4	photer And	18K
PLE VI	they comply with the conditions specifie	10401	Pupotek Vupo, W.	Р
nbotek	Appliances incorporating an electronic relies upon a programmable componen correctly, subjected to the test of 19.11	t to function	Anbotek Anbotek	Р
	restarting does not result in a hazard		ek botek Anboten	Р
Anbot Anbot	Appliances having a device with an off obtained by electronic disconnection, o placing the appliance in a stand-by mos subjected to the tests of 19.11.4	r a device	Potek Vipotek Vipotek Vipotek	Р
Anbotek Anbotek	If the safety of the appliance under any conditions depends on the operation of fuse-link complying with IEC 60127, the 19.12 is carried out	a miniature	Anbotek Anbotek	Р
, boil	During and after each test the following	is checked:	ofek Anbotek	
lek Vu	- the temperature of the windings do no values specified in table 8	t exceed the	abotek Anbotek Anbo	Р
botek	- the appliance complies with the conditional specified in 19.13	ions	Anbotek Anbotek Ar	Р
Anbotek	- any current flowing through protective not exceeding the limits specified in 8.1		ek abotek Anbotek	Р
tek Anbor	If a conductor of a printed board become considered to have withstood the partic conditions are met:			
lpotek	- the base material of the printed circuit withstands the test of Annex E	board	Anbotek Anbotek An	Р
Anborek Anborek	- any loosened conductor does not reducted clearance or creepage distances betwee and accessible metal parts below the vispecified in clause 29	en live parts	ak Anbotek Anbotek	Р
19.11.1	Fault conditions a) to g) in 19.11.2 are meeting both of the following conditions		circuits or parts of circuits	
Anbotek Anbotek	- the electronic circuit is a low-power cir the maximum power at low-power point exceed 15 W according to the tests spe	s does not	Anbotek Anbotek An	N
Anboten Anbote	the protection against electric shock, f mechanical hazard or dangerous malfu other parts of the appliance does not re correct functioning of the electronic circ	nction of ly on the	otek Anbotek Anbotek	N
19.11.2	Fault conditions applied one at a time, t specified in clause 11, but supplied at r specified:			
Anbotek Anbotek	a) short circuit of functional insulation if or creepage distances are less than the specified in clause 29		k Anbotek Anbotek	N



,bojek	IEC 60335-1	k week anboien	Ville
Clause	Requirement + Test	Result - Remark	Verdict
Vun	otek shotek Anbo, An Lotek	aboles Anbo	iek .
otek An	b) open circuit at the terminals of any component	abotek Anbore Ans	Р
aborek	c) short circuit of capacitors, unless	h. hotek Anboten A	Р
holok	they comply with IEC 60384-14	Ans otek Anbotek	Р
Anbotek	d) short circuit of any two terminals of an electronic component, other than integrated circuits	tek Anbotek Anbotek	Р
	This fault condition is not applied between the two circuits of an optocoupler	botek Anbotek Anbo	Р
, bu.	e) failure of triacs in the diode mode	Anbores Anb	Р
hore	f) failure of microprocessors and integrated circuits	anbotek Anbo	Р
anbotek	g) failure of an electronic power switching device	abotek Anbote	N
Anborek Anbor	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	ok Anbotek Anbotek	Р
19.11.3	If the appliance incorporates a protective electronic circuit that operates to ensure compliance with clause 19, the appliance is tested as specified	Anbotek Anbotek	Р
19.11.4	Appliances having a device with an off position obtained by electronic disconnection, or	ak Anbotak Anbotak	Р
nbore	a device that can be placed in the stand-by mode,	ok botek Anbores	Р
notek Ant	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 standby mode	Anbotek Anbotek Anbo	Р
Anbotek 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	Р
ek Anb	appliances operated for 30 s or 5 min during the test of 19.7 are not subjected to the tests for electromagnetic phenomena.	Anbotek Anbotek Anbot	Р
Nek	Surge protective devices disconnected, unless	Anbo. bolek	Р
And	They incorporate spark gaps	Vupor Yun	Р
19.11.4.1	The appliance is subjected to electrostatic discharges in accordance with IEC 61000-4-2, test level 4	otek Anbotek Anbotek	Р
19.11.4.2	The appliance is subjected to radiated fields in accordance with IEC 61000-4-3, at frequency ranges specified	Anbotek Anbotek Ant	Р
19.11.4.3	The appliance is subjected to fast transient bursts in accordance with IEC 61000-4-4, test level 3 or 4 as specified	k Anbotek Anbotek	Р



-potek	Anbo. Al.	IEC 60335-1	k niek anbore	Pur
Clause	Requirement + Test	, spotek Anb	Result - Remark	Verdic
19.11.4.4	The power supply terminals of subjected to voltage surges if 61000-4-5, test level 3 or 4 a	n accordance with IEC	Anbotek Anbotek Anb	P
Anbotek	An open circuit test voltage of for the line-to-line coupling m	f 2 kV is applicable	Anbotek Anbotek	Р
Anbo	An open circuit test voltage of the line-to-earth coupling	f 4 kV is applicable for	tek Aupotek Aupotek	Р
ok Ari	Earthed heating elements in disconnected	class I appliances	Anbotek Anbotek Anbr	Р
19.11.4.5	The appliance is subjected to accordance with IEC 61000-4		Anbotek Anbotek	Р
19.11.4.6	Appliances having a rated cu A are subjected to the Class interruptions in accordance w	3 voltage dips and	ek Anbotek Anbotek	Р
ek An	Appliances having a rated cu are subjected to the Class 3 interruptions in accordance w	voltage dips and	Anbotek Anbotek Anbo	Р
19.11.4.7	The appliance is subjected to accordance with IEC 61000-4		Anbotek Anbotek	N
19.11.4.8	The appliance is supplied at operated under normal operate power supply is reduced to a appliance ceases to respond the programmable componer	ation. After 60s the level such that the or parts controlled by	otek Anbotek Anbotek	P
ootek	The appliance continues to o	perate normally, or	Motek Anbotek Ar	Р
-hotek	requires a manual operation	to restart	Am anbotek	Р
19.12	If the safety of the appliance conditions specified in 19.11. operation of a miniature fuse IEC 60127, the test is repeat current flowing through the fucurrent (A); rated current of the safety of th	2 depends on the	ak Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	Р
19.13	During the tests the applianc flames, molten metal, poison hazardous amounts		Anbotek Anbotek	Р
Anbore	Temperature rises not excee in table 9		(see appended table)	Р
010- 11	Compliance with clause 8 no	t impaired	o, by, wolek Wupot,	Р
otek l	If the appliance can still be of with 20.2	perated it complies	Anbotek Anbotek An	Р
Anbotek Anbotek	Insulation, other than of class contain live parts, withstands specified in table 4:		III constructions that do not st of 16.3, the test voltage as	



botek	IEC 60335-1	k kotek anboten	VUD
Clause	Requirement + Test	Result - Remark	Verdic
Viun	ak hotek Aupo, Au	apolek Aupa.	ek.
Jek W	- basic insulation (V):	1250V	Р
bolek	- supplementary insulation (V):	1750V	Р
"olek	- reinforced insulation (V):	3000V	Р
Anbotek Anbot	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	tek Anbotek Anbotek  Anbotek Anbotek Anbotek	Р
hotek	The appliance does not undergo a dangerous malfunction, and	Anbotek Anbotek A	Р
Anbotek	no failure of protective electronic circuits, if the appliance is still operable	Anbotek Anbotek	Р
Anbor	Appliances tested with an electronic switch in the off mode:	f position, or in the stand-by	
iek ani	- do not become operational, or	tek anbotek Anbo	Р
ibotek obotek	- if they become operational, do not result in a dangerous malfunction during or after the tests of 19.11.4	Anbotek Anbotek An	N
Anbotek	If the appliance contains lids or doors that are contro one of the interlocks may be released provided that:		
ek Anbor	- the lid or door does not move automatically to an open position when the interlock is released, and	potek Anboten Anbot	N
polek W.	- the appliance does not start after the cycle in which the interlock was released	Anborek Anbotek An	N
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	ak Anbotek Anbotek	Р
Anbore	For a relay or contactor with more than one contact, all contacts are short-circuited at the same time	otek Anbotek Anbote	N
potek Ani	A relay or contactor operating only to ensure the appliance is energized for normal use is not short-circuited	Anbotek Anbotek An	N
Anboro	If more than one relay or contactor operates in clause 11, they are short-circuited in turn	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	otek Anbotek Anbotek	N
20	STABILITY AND MECHANICAL HAZARDS		
20.1	Appliances having adequate stability	rek abote.	P

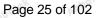


-00,	IEC 60335-1	wotek Anbo	ber.
Clause	Requirement + Test	Result - Remark	Verdict
hootek An	Tilting test through an angle of 10°, appliance placed on an inclined plane/horizontal support, not connected to the supply mains; appliance does not overturn	Anbotek Anbotek Anbotek Anbotek	P
Anbotek	Tilting test repeated on appliances with heating elements, angle of inclination increased to 15°	lek Anbotek Anbotek	N
rek Anbor	Possible heating test in overturned position; temperature rise does not exceed values shown in table 9	ibotek Anbotek Anbo	N
20.2	Moving parts adequately arranged or enclosed as to provide protection against personal injury	Anbotek Anbotek A	Р
Anbotek	Protective enclosures, guards and similar parts are non-detachable, and	ek Anbotek Anbotek	Р
anbore	have adequate mechanical strength	ak abotek Anbotes	Р
lek Put	Enclosures that can be opened by overriding an interlock are considered to be detachable parts	bot Anbotek Anbo	Р
Anbotek Anbotek	Self-resetting thermal cut-outs and overcurrent protective devices not causing a hazard by unexpected closure	Anbotek Anbotek	Р
Anbotek	Not possible to touch dangerous moving parts with the test probe described	ek Aupotek Aubotek	Р
21	MECHANICAL STRENGTH		
21.1	Appliance has adequate mechanical strength and is constructed as to withstand rough handling	Anbotek Anbotek An	Р
Anbotek Anbotek	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
ek Anbore	The appliance shows no damage impairing compliance with this standard, and	lotek Anbotek Anbot	Р
ootek	compliance with 8.1, 15.1 and clause 29 not impaired	Anbotek Anbotek An	N
Anbotek	If doubt, supplementary or reinforced insulation subjected to the electric strength test of 16.3	Ambotak Ambotak	Р
Anborel	If necessary, repetition of groups of three blows on a new sample	Anbotek Anbotek	Р
21.2	Accessible parts of solid insulation having strength to prevent penetration by sharp implements	mbotek Anbotek Anbot	Р
Aupotek b	Test not applicable if the thickness of supplementary insulation is at least 1 mm and reinforced insulation at least 2 mm	Anbotek Anbotek	Р
Anbore	The insulation is tested as specified, and does withstand the electric strength test of 16.3	k Anboten Anbo otek	Р



hotek	Anboren Anto	IEC 60335-1	V Ans	anbotek	Vupo.
Clause	Requirement + Test	ak abotek Ar	Result - Remark	anbotek	Verdict

22	CONSTRUCTION		
22.1	Appliance marked with the first numeral of the IP system, relevant requirements of IEC 60529 are fulfilled	Vipotek Vipotek V	Р
22.2	Stationary appliance: means to ensure all-pole disco provided:	nnection from the supply being	
Anb.	- a supply cord fitted with a plug, or	botek Anbot An	N
otek p	- a switch complying with 24.3, or	botek Anbote And	N
anbotek Anbotek	a statement in the instruction sheet that a disconnection incorporated in the fixed wiring is to be provided, or	Anbotek Anbotek	N
Anbotek	- an appliance inlet	ek shotek Anbore	N
upotek Aupo	Singe-pole switches and single-pole protective devices for the disconnection of heating elements in single-phase, permanently connected class 01 and class I appliances, connected to the phase conductor	botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N
22.3	Appliance provided with pins: no undue strain on socket-outlets	Anbotek Anbotek	N
Aupo,	Applied torque not exceeding 0.25 Nm	ek Anbore And	N
yek Anbo	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	Anbotek Anbotek Anbot	N
Anbotek	Each pin subjected to a torque of 0.4Nm; the pins are not rotating, unless	Anbotek Anbotek	N
Anbotek	rotating does not impair compliance with this standard	ak Anbotek Anbotek	N
22.4	Appliance for heating liquids and appliance causing undue vibration not provided with pins for insertion into socket-outlets	Anbotek Anbotek Anbot	N
22.5	No risk of electric shock when touching pins, for appliances having a capacitor with rated capacitance equal to or greater than 0,1µF, the appliance being disconnected from the supply at the instant of voltage peak	Anbotek Anbotek Anbotek Anbotek	Р
Vunn	Voltage not exceeding 34 V (V):	oten Anber set sole	Р
Potek Vu	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 Ant	N
Aupole Potek	The discharge test is then repeated three times, voltage not exceeding 34 V (V):	Aupotek Aupotek	N





-botek	IEC 60335-1	h water anbore	And
Clause	Requirement + Test	Result - Remark	Verdic
Ville	ak potek Aupo, Ar. tek	aboter Anb	ek-
22.6	Electrical insulation not affected by condensing water or leaking liquid	Anbotek Anbotek Anb	Р
hbo.	Electrical insulation of Class II appliances not affected if a hose ruptures or seal leaks	Anborek Anbotek	Р
abotek	In case of doubt, test as described	ok hotek Anbotes	Р
22.7	Adequate safeguards against the risk of excessive pressure in appliances containing liquid or gases or having steam-producing devices	lootek 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	Anbotek Anbotek A	N
22.9	Insulation, internal wiring, windings, commutators and slip rings not exposed to oil, grease or similar substances, unless	ok Anbotek Anbotek	N
lek Vul	the substance has adequate insulating properties	abotek Anbote Ans	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:	Anbotek Anbotek	N
Anbore	- a non-self-resetting thermal cut-out is required by the standard, and	otek Anbotek Anbotek	N
ek Ant	- a voltage maintained non-self-resetting thermal cut-out is used to meet it	Amborek Amborek Ambo	N
botek	Non-self-resetting thermal motor protectors have a trip-free action, unless	Anbotek Anbotek	N
P. Polek	they are voltage maintained	An untek anbotek	N
Anbore Anbore	Reset buttons of non-self-resetting controls so located or protected that accidental resetting is unlikely	notek Anbotek Anbotek	N
22.11	Reliable fixing of non-detachable parts that provide the necessary degree of protection against electric shock, moisture or contact with moving parts	Anbotek Anbotek An	Р
Anbotek	Obvious locked position of snap-in devices used for fixing such parts	k Anbotek Anbotek	Р
anbote Anb	No deterioration of the fixing properties of snap-in devices used in parts that are likely to be removed during installation or servicing	otek Anbotek Anbote	Р
otek	Tests as described	Yung Otek Vupotek Vup	Р
22.12	Handles, knobs etc. fixed in a reliable manner, if loosening result in a hazard	Vupa, Vupotek	Р

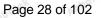
Tel:(86) 20-82575737 Email: service.gz@anbotek.com



hotek	IEC 60335-1	k wotek anboten	Amb
Clause	Requirement + Test	Result - Remark	Verdic
stek Ar	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 Anbotek	P
Aupolek	A choking hazard does not apply to appliances for commercial use	Anbotek Anbotek	Р
Anbot	Axial force 15 N applied to parts, the shape being so that an axial pull is unlikely to be applied	tek Anbotek Anbotek	Р
tek bu	Axial force 30 N applied to parts, the shape being so that an axial pull is likely to be applied	Anbotek Anbotek Anbo	Р
Anbotek	If the part is removed and can be contained within the small parts cylinder, it is considered to be a choking hazard	Ambotek Ambotek	Р
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	lok Anbotek Anbotek Botek Anbotek Anbotek	Р
22.14	No ragged or sharp edges creating a hazard for the user in normal use, or during user maintenance	Anbotek Anbotek An	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	ek Anbotek Anbotek	Р
22.15	Storage hooks and the like for flexible cords smooth and well rounded	botek Ambotek Ambot	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 An	N
abotek	Cord reel tested with 6000 operations, as specified	A hotek Anbore	N
Anbote	Electric strength test of 16.3, voltage of 1000 V applied	otek Anbotek Anbotek	N
22.17	Spacers not removable from the outside by hand or by means of a screwdriver or a spanner	Anbotek Anbotek An	N
22.18	Current-carrying parts and other metal parts resistant to corrosion	Anbotek Anbotek	Р
22.19	Driving belts not relied upon to provide the required level of insulation, unless	Anbotek Anbotek	N
Vive	constructed to prevent inappropriate replacement	otok Anbo. Anbo. Anbo.	N
22.20	Direct contact between live parts and thermal insulation effectively prevented, unless	Anbotak Anbotak Ant	Р
Anbotek	material used is non-corrosive, non-hygroscopic and non-combustible	Anbotek Anbotek	Р
22.21	Wood, cotton, silk, ordinary paper and fibrous or hygroscopic material not used as insulation, unless	k Anbotek Anbotek	Р

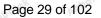


aboten	IEC 60335-1	anbor Anbor	b.,
Clause	Requirement + Test	Result - Remark	Verdic
Arra	lotek Anbotek Anbo. Al motek	aboles Anbe	sek.
yer An	impregnated	botek Anbor An	N
	This requirement does not apply to magnesium oxide and mineral ceramic fibres used for the electrical insulation of heating elements	Anbotek Anbotek	N
22.22	Appliances not containing asbestos	ak hotek Anbotes	Р
22.23	Oils containing polychlorinated biphenyl (PCB) not used	botek Ambotek Ambote	Р
22.24	Bare heating elements, except in class III appliances or class III constructions that do not contain live parts, adequately supported	Anbotek Anbotek Anbotek	N
Anbotek	In case of rupture, the heating conductor is unlikely to come in contact with accessible metal parts	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 Anbotek	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	Anbotek Anbotek	Р
22.27	Parts connected by protective impedance separated by double or reinforced insulation	otek Anbotek Anbotek	Р
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 Anbo	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	ak Anbotek Anbotek	N
22.30	Parts serving as supplementary or reinforced insulation fixed so that they cannot be removed without being seriously damaged, or	Anbotek Anbotek Anbot	Р
Anbotek 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	Р
22.31	Neither clearances nor creepage distances over supplementary and reinforced insulation reduced below values specified in clause 29 as a result of wear	Anbotek Anbotek Anbote	Р
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	Anbotek Anbotek	Р



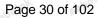


botek	IEC 60335-1	k sotek anboten	Vur
Clause	Requirement + Test	Result - Remark	Verdic
Ville	ok hotek Anto, W. tek	aboven Anbo	ek.
22.32	Supplementary and reinforced insulation constructed or protected against pollution so that clearances or creepage distances are not reduced below the values in clause 29	Anbotek Anbotek Anbotek A	N
	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	lek Anbotek Anbotek	N
nbotek Ani	Ceramic material not tightly sintered, similar materials or beads alone not used as supplementary or reinforced insulation	Anbotek Anbotek An	N
Anbotek 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
Anbore	Oxygen bomb test at 70 °C for 96 h and 16 h at room temperature	botek Anbotek Anbot	N
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	Anbotek Anbotek An	N
	unearthed metal parts separated from live parts by basic insulation only	ek Anbotek Anbotek	N
AUP	Electrodes not used for heating liquids	Dojek Pupo, K Pol	N
botek botek Anbotek	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 An Anbotek Anbotek An	N
Anboro	the reinforced insulation consists of at least 3 layers	ek Aupoles, Aupo	N
ek Anbore	For class II constructions, conductive liquids which are in contact with live parts, not in direct contact with reinforced insulation, unless	sotek Anbotek Anbotek Anbot	N
potek	the reinforced insulation consists of at least 3 layers	hotek Anbotes An	N
Anbotek Anbotek	An air layer not used as basic or supplementary insulation in a double insulation system if likely to be bridged by leaking liquid	k Anbotek Anbotek	N
22.34	Shafts of operating knobs, handles, levers etc. not live, unless	otek Anbotek Anbotes	Р
otek Vup.	the shaft is not accessible when the part is removed	Anbotek Anbotek Ant	Р
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	Anbotek Anbotek	Р





-bojek	Anbor An	IEC 60335-1	W. Wek	anboter	Anb
Clause	Requirement + Test	abotek Anb	Result - Remark	anbotek	Verdict
nbotek Anbotek	Such parts being of metal, and the fixings are likely to become live in failure of basic insulation, are eith covered by insulation material or to parts are separated from their sha supplementary insulation	the event of a er adequately heir accessible	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	botek Anbotek	P
itek Anbot	This requirement does not apply to and knobs on stationary appliance appliances, other than those of elecomponents, provided they are reto an earthing terminal or earthing separated from live parts by earth	es and cordless ectrical liably connected contact, or	Anbotek Anbotek	Anbotek Anbo	Р
Anbotek	Insulating material covering metal and knobs withstand the electric s 16.3 for supplementary insulation		ek Anbotek An	Anbotek	Р
22.36	For appliances other than class III continuously held in the hand in n constructed that when gripped as the operators hand is not likely to unless	ormal use so in normal use,	Anbotek Anbotek	Anbol Anbol	Р
Anbotek	they are separated from live parts reinforced insulation	by double or	Tr Pupoter Vu	Anbotek	Р
22.37	Capacitors in Class II appliances accessible metal parts and their c metal, separated from accessible supplementary insulation, unless	asings, if of	ootek Anbotek	Anbotek Anbot	N
botek	the capacitors comply with 22.42	Aug.	abotek Anbote	Pr.	N
22.38	Capacitors not connected betwee a thermal cut-out	n the contacts of	Anbotek Ant	obotek	N
22.39	Lamp holders used only for the co	onnection of lamps	ak Anbo	wolek.	N
22.40	Motor-operated appliances and co appliances intended to be moved operation, or having accessible m with a switch to control the motor. member of the switch being easily accessible	while in oving parts, fitted The actuating	Anbotek Anbotek  Anbotek Anbote  Anbotek Anbote	k Anbot	Р
Anbotek Anbotek Anb	If the appliance cannot operate co automatically or remotely without hazard, appliances for remote ope with a switch for stopping the ope actuating member of the switch be and accessible	giving rise to a eration being fitted ration. The	otek Anbotek	Anbotek Anbote Anbote	N
22.41	No components, other than lamps mercury	s, containing	Anborek Anb	otek	Р
22.42	Protective impedance consisting of separate components	of at least two	k Anbotek	inpose	Р

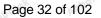




botek	IEC 60335-1	work anboten	And
Clause	Requirement + Test	Result - Remark	Verdict
Arra	Tek Whotek Aupo, W. Wiek	And And	ek-
otek Ar	Values specified in 8.1.4 not exceeded if any one of the components are short-circuited or open-circuited	Anbotek Anbotek An	Р
Anborek	Resistors checked by the test of 14.1 a) in IEC 60065	Anbotek Anbotek	N
Anbo	Capacitors checked by the tests for class Y capacitors in IEC 60384-14	orlek Vupotek Vupotek	Р
22.43	Appliances adjustable for different voltages, accidental changing of the setting of the voltage unlikely to occur	Anbotek Anbotek Anbo	N
22.44	Appliances not having an enclosure that is shaped or decorated like a toy	k Anbotek Anbotek	N
22.45	When air is used as reinforced insulation, clearances not reduced below the values specified in 29.1.3 due to deformation as a result of an external force applied to the enclosure	Anbotek Anbotek Anbotek	Р
22.46	For programmable protective electronic circuits used to ensure compliance with the standard, the software contains measures to control the fault/error conditions in table R.1	Anbotek Anbotek Ar	N
	Software that contains measures to control the fault/error conditions specified in table R.2 is to be specified in parts 2 for particular constructions or to address specific hazards	orek Anbotek Anbotek	N
hotek hotek	These requirements are not applicable to software used for functional purpose or compliance with clause 11	Aupotek Aupotek Au	N
22.47	Appliances connected to the water mains withstand the water pressure expected in normal use	Antotek Anbotek	N
Anbor.	No leakage from any part, including any inlet water hose	nbotek Anbotek Anbot	N
22.48	Appliances connected to the water mains constructed to prevent backsiphonage of non-potable water	Anbotek Anbotek An	N
22.49	For remote operation, the duration of operation is to be set before the appliance can be started, unless	Aupotek Aupotek	N
Anbore	the appliance switches off automatically or can operate continuously without hazard	nyotek Anbotek Anbotes	N
22.50	Controls incorporated in the appliance take priority over controls actuated by remote operation	Anbotek Anbotek Ant	N
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	N



-boish	IEC 60335-1	nek anbor	br.
Clause	Requirement + Test	Result - Remark	Verdic
Pr.	Joseph Anbo Lok Martick	abole And	ek .
ye. A	There is a visual indication showing that the appliance is adjusted for remote operation	Pupotek Vupo, V	N
upo, ek	These requirements not necessary on appliances the without giving rise to a hazard:	at can operate as follows,	
anbotek	- continuously, or	ek stotek Anboten	N
1000	- automatically, or	r Purpotek Vupotek	N
Pr.	- remotely	pole Aug dek Vupo	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	Anbotek Ambotek A	N
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	ek Anbotek Anbotek	N
22.54	Button cells and batteries designated R1 not accessible without the aid of a tool, unless	Anbotek Anbotek Anbo	N
Anbotek	the cover of their compartment can only be opened after at least two independent movements have been applied simultaneously	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:	ok Anbotek Anbotek	N
potek	The requirement concerning position does not preclude use of a push on push off switch	Anbotek Anbotek An	N
Aupole.	An indication when the device has been operated is	given by:	N
Anbotok	tactile feedback from the actuator or from the appliance, or	ak Anbotek Anbotek	N
Vun	- reduction in heat output; or	otek Anbo. Arbot	N
an'	- audible and visible feedback	Anbotek Anbote An	N
22.56	Detachable power supply part provided with the part of class III construction	Anbotek Anbotek An	Р
22.57	The properties of non-metallic materials do not degrade from exposure to UV-C radiation, as specified in Annex T	Anbotek Anbotek	N
ak Anb	This requirement does not apply to glass, ceramics or similar materials	botek Anbotek Anbote	N
23	INTERNAL WIRING		
23.1	Wireways smooth and free from sharp edges	Ann stek anbotek	Р
Ambotek	Wires protected against contact with burrs, cooling fins etc.	k Anbotek Anbotek	Р





Arbois	IEC 60335-1	Jey Wholes Was	
Clause	Requirement + Test	Result - Remark	Verdic
br.	stek Anhotek Anbo	abole And	ek.
iten V.	Wire holes in metal well-rounded or provided with bushings	Anbotek Anbote An	Р
	Wiring effectively prevented from coming into contact with moving parts	Anborek Anborek	Р
23.2	Beads etc. on live wires cannot change their position, and are not resting on sharp edges	lek Anbotek Anbotek	Р
ek Anbo	Beads inside flexible metal conduits contained within an insulating sleeve	Potek Vupotek Vupo	Р
23.3	Electrical connections and internal conductors movable relatively to each other not exposed to undue stress	Anbotek Anbotek	N
Anbotek	Flexible metallic tubes not causing damage to insulation of conductors	ek Anbotek Anbotek	N
Anbo	Open-coil springs not used	otek Anbotek Anbo	N
lek VL	Adequate insulating lining provided inside a coiled spring, the turns of which touch one another	Anbotek Anbotek Anbo	N
botek	No damage after 10 000 flexings for conductors flexed during normal use, or	Vupotek Vupotek	N
Anbotek	100 flexings for conductors flexed during user maintenance	ek Anbotek Anbotek	N
ak Anbo	Electric strength test of 16.3, 1000 V between live parts and accessible metal parts	potek Anbotek Anbot	N
potek k.	Not more than 10% of the strands of any conductor broken, and	Ambore Amborek An	N
Anbotek	not more than 30% for wiring supplying circuits that consume no more than 15W	Anbotek Anbotes	N
23.4	Bare internal wiring sufficiently rigid and fixed	ak Anbore Am	Р
23.5	The insulation of internal wiring subjected to the supply mains voltage withstanding the electrical stress likely to occur in normal use	Sofek Anbotek Anbot	Р
Anbotek	Basic insulation electrically equivalent to the basic insulation of cords complying with IEC 60227 or IEC 60245, or	Anbotek Anbotek	Р
Anbore	no breakdown when a voltage of 2000 V is applied for 15 min between the conductor and metal foil wrapped around the insulation	otek Aupotek Aupotek	Р
otek Ant	For class II construction, the requirements for supplementary insulation and reinforced insulation apply,	Anbotek Anbotek Anb	Р
Anbotek	except that the sheath of a cord complying with IEC 60227 or IEC 60245 may provide supplementary insulation.	Anbotek Anbotek	N



· botel	IEC 60335-1	A work Anboren	Pupp
Clause	Requirement + Test	Result - Remark	Verdict
otek b	A single layer of internal wiring insulation does not provide reinforced insulation	Anbotek Anbotek Anbotek	N
23.6	Sleeving used as supplementary insulation on internal wiring retained in position by clamping at both ends, or	Anbotek Anbotek	Р
Anbo	be such that it can only be removed by breaking or cutting	lek Anborek Arbotek	Р
23.7	The colour combination green/yellow only used for earthing conductors	Anbotek Anbotek Anbo	N
23.8	Aluminium wires not used for internal wiring	anbotek Anbor A	Р
23.9	Stranded conductors not consolidated by soldering where they are subjected to contact pressure, unless	ek Anbotek Anbotek	N
k Anbo	the contact pressure is provided by spring terminals	notek Anbotek Anbo	N
23.10	The insulation and sheath of internal wiring, incorporated in external hoses for the connection of an appliance to the water mains, at least equivalent to that of light polyvinyl chloride sheathed flexible cord (60227 IEC 52)	Anbotek Anbotek Anbotek	N
24	COMPONENTS		
24.1	Components comply with safety requirements in relevant IEC standards	Cotek Anbotek Anbotek	Р
New W	List of components:	(see appended table)	Р
nbotek	Motors not required to comply with IEC 60034-1, they are tested as part of the appliance	Anbotek Anbotek An	Р
Aup	Relays tested as part of the appliance, or	Anbo, Air hotek	N
Anbo	alternatively acc. to IEC 60730-1, and meeting the additional requirements in IEC 60335-1	kek Anbotek Anbotek	N
hotek An	The requirements of Clause 29 apply between live parts of components and accessible parts of the appliance	Anbotek Anbotek Anbot	Р
Anbotek	Components can comply with the requirements for clearances and creepage distances for functional insulation in the relevant component standard	Ambotek Anbotek	Р
ek Anboh	30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections	otek Anbotek Anbotek	Р
Anbotek Anbotek	Components that have not been previously tested to comply with the IEC standard for the relevant component are tested according to the requirements of 30.2	Anbotek Anbotek	Р

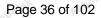


hotek	IEC 603	335-1	A. Lotek anbotek	Anbo
Clause	Requirement + Test	Anb	Result - Remark	Verdict
otek An Anbotek Anbotek	Components that have been previously te comply with the resistance to fire requirem the IEC standard for the relevant component be retested provided the specified con are met	nents in ent need	Anbotek Anbotek Anbotek Anbotek Anbotek	P
Anbote	If these conditions are not satisfied, the cois tested as part of the appliance.	mponent	lek Anbotek Anbotek	Р
Yek Vu	Power electronic converter circuits not recomply with IEC 62477-1, they are tested the appliance		Anbotek Anbotek Anbo	N
Anbotek Anbotek	If components have not been tested and for comply with relevant IEC standard for the of cycles specified, they are tested in account with 24.1.1 to 24.1.9	number	ek Anbotek Anbotek	Р
tek Anbot	For components mentioned in 24.1.1 to 24 additional tests specified in the relevant constandard are necessary other than those in 24.1.1 to 24.1.9	mponent	botek Anbotek Anbo	Р
Anbotek Anbotek	Components not tested and found to components not relevant IEC standard and components not not used in accordance with its marking under the conditions occurring in the applications.	ot marked , tested	Anbotek Anbotek	Р
tek Antor	Lampholders and starterholders that have tested and found to comply with the relevant standard, tested as a part of the appliance additionally according to the gauging and interchangeability requirements of the relestandard	ant IEC and	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N
Anbotek Anbotek	No additional tests specified for nationally standardized plugs such as those detailed IEC/TR 60083 or connectors complying w standard sheets of IEC 60320-1 and IEC 6	ith the	otek Anbotek Anbotek	Р
24.1.1	Capacitors likely to be permanently subject supply voltage and used for radio interfere suppression or for voltage dividing, complete 60384-14	ence	Anbotek Anbotek Anbotek	N
Anbotek	If the capacitors have to be tested, they as according to Annex F	e tested	k Anbotek Anbotek	N
24.1.2	Transformers in associated switch mode purplies comply with Annex BB of IEC 618		otek Anbotek Anbot	Р
potek Am	Safety isolating transformers comply with 61558-2-6	IEC	Anbotek Anbotek An	N
Anbolek	If they have to be tested, they are tested a to Annex G	ccording	Anbotek Anbotek	N
24.1.3	Switches comply with IEC 61058-1, the nucycles of operation being at least 10 000	ımber of	k Anbotek Anbotek	N



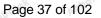


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Clause	Requirement + Test	Anb	Result - Remark	Verdic
P.L.	Tolk Mpolok Aupo, W. Poli	N- P	abole And	101
iek Ar	If they have to be tested, they are tested act to Annex H	cording	Anbotek Anbote Ans	N
anbotek	If the switch operates a relay or contactor, the complete switching system is subjected to the		Anbotek Anbotek	N
Anbotek	If the switch only operates a motor staring recomplying with IEC 60730-2-10 with the nur cycles of a least 10 000 as specified, the coswitching system need not be tested	nber of	lek Anbotek Anbotek	N
24.1.4	Automatic controls comply with IEC 60730-of cycles of operation being at least:	1 with the	e relevant part 2. The number	
~olek	- thermostats:	10 000	And otek anbotek	N
Vu. rotek	- temperature limiters:	1 000	Anbotek sabotek	N
Vien Vien	- self-resetting thermal cut-outs:	300	lek Vupe, Yek Vpolek	N
ek Anb	- voltage maintained non-self-resetting thermal cut-outs:	1 000	botek Anbotek Anbot	N
notek	- other non-self-resetting thermal cut-outs:	30	And stek anbotek Ar	N
otek.	- timers:	3 000	Anbo tok abotek	N
Anb	- energy regulators:	10 000	Anbo. A. Colek	N
Anbo <sup>k</sup> Anbo <sup>k</sup>	The number of cycles for controls operating clause 11 need not be declared, if the applia meets the requirements of this standard wheare short-circuited	ance	otek Anbotek Anbotek	N
potek Anbotek	Thermal motor protectors are tested in comwith their motor under the conditions specifi Annex D		Anbotek Anbotek An	N
Anbotek Anbote	For water valves containing live parts and the incorporated in external hoses for connection appliance to the water mains, the degree of protection declared for subclause 6.5.2 of IE 60730-2-8 is IPX7	n of an	otek Anbotek Anbotek  Sotek Anbotek Anbotek	N
otek onbotek	Thermal cut-outs of the capillary type complethe requirements for type 2.K controls in IEC 60730-2-9		Anbotek Anbotek An	N
24.1.5	Appliance couplers comply with IEC 60320-	1 Anbore	k wotek anbotek	N
Anbotel	However, for class II appliances classified higher than IPX0, the appliance couplers comply with IEC 60320-2-3			N
otek l	Interconnection couplers comply with IEC 6 2	0320-2-	unbotek Anbotek Ant	N
24.1.6	Small lamp holders similar to E10 lamphold comply with IEC 60238, the requirements for lampholders being applicable		Anbotek Anbotek	N



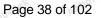


bojek	Aupor An	IEC 60335-1	" work	Anbore.	And
Clause	Requirement + Test	anbotek Anb	Result - Remark	anbotek	Verdict
24.1.7	For remote operation of the telecommunication network, for the telecommunication in appliance is IEC 62151	the relevant standard	Anbotek Anbote	otek Anbotek	N
24.1.8	The relevant standard for the 60691	ermal links is IEC	lek Vupojek	Anbotek	N
anbot Anbot	Thermal links not complying considered to be an intention purposes of Clause 19		Potek Vupotek	Anbo	N
24.1.9	Contactors and relays, other relays, tested as part of the		Anbotek Anb	otek bi	N
Anborek Anborek	They are also tested in according of IEC 60730-1, the number in 24.1.4 selected according relay function in the appliance	of cycles of operations to the contactor or	ek Anbotek	Anbotek Anbotek	Notes Ambr
24.2	Appliances not fitted with:	otek Anboten A	nbo tek	Anbo	
nbotek	- switches, automatic contro flexible cords	ls or power supplies in	Anbotek Anbo	lok bi	N
Anbotek Anbotek	- devices causing the protect wiring to operate in the even appliance		ek Anbotek A	Anbotek Anbotek	N
Anbore	- thermal cut-outs that can bunless	e reset by soldering,	potek Anbotek	Anbot	N
to be	the solder has a melding poi	int of at least 230 °C	Anbores Anb	, ok	N
24.3	Switches intended for all-pol stationary appliances are dir supply terminals and have a all poles, providing full disco overvoltage category III con-	ectly connected to the contact separation in nection under	Anbotek Anbotek Arbotek	Anbotek Anbotek	N
24.4	Plugs and socket-outlets for circuits and heating element with plugs and socket-outlet IEC/TR 60083 or IEC 60906 and appliance inlets complying sheets of IEC 60320-1	s, not interchangeable s listed in -1 or with connectors	Anbotek Anbotek  Anbotek Anbotek  Anbotek	ek Anbot botek	N
24.5	Capacitors in auxiliary windi with their rated voltage and accordingly		otek Anbotek	Anbotek	N
potek Anb	Voltage across capacitors in winding does not exceed 1,1 when the appliance is supplivoltage under minimum load	I times rated voltage, ied at 1,1 times rated	Vupotek Vupotek	ek Anbot	N





botek	IEC 60335-1	k notek anbore	VUL
Clause	Requirement + Test	Result - Remark	Verdic
Arra	ok botek Anbo' All sek	aboten Anbo	,elt
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	Anbo stok	Р
Anbotek	In addition, the motors comply with the requirements of Annex I	re Anbotek Anbotek	Р
24.7	Detachable hose-sets for connection of appliances to the water mains comply with IEC 61770	S Aupotek Aupotek Aupo	N
i.e. Vi	They are supplied with the appliance	Anborek Anbo	N
Anbotek Anbotek	Appliances intended to be permanently connected to the water mains not connected by a detachable hose-set		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 Anbotek	Р
*ek	One or more of the following conditions are to be a	met:	N
anbotek hbo,	- the capacitors are of class S2 or S3 according to IEC 60252-1	ek Anbotek Anbotek	Р
Anbotek	- the capacitors are housed within a metallic or ceramic enclosure	borok Anborek Anbore	Р
ick And	- the distance of separation of the outer surface to adjacent non-metallic parts exceeds 50 mm	Arbotek Anbotek Anbot	Р
botek	- adjacent non-metallic parts within 50 mm withstand the needle-flame test of Annex E	Anbotek Anbotek An	Р
Anbotek Anbotek	- adjacent non-metallic parts within 50 mm classified as at least V-1 according to IEC 60695-11-10	ek Anbotek Anbotek	Р
25	SUPPLY CONNECTION AND EXTERNAL FLEX	IBLE CORDS	
25.1	Appliance not intended for permanent connection connection to the supply:	to fixed wiring, means for	N
Anbotek botek	- supply cord fitted with a plug, the current rating and voltage rating of the plug being not less than the corresponding ratings of its associated appliance	anbotek Anbotek	N
ek Anbots	- an appliance inlet having at least the same degree of protection against moisture as required for the appliance, or	ee Market	N
*ok	- pins for insertion into socket-outlets	Aupole Aug atek Aut	N
25.2	Appliance not provided with more than one means of connection to the supply mains	Anbores Anborek	N





Anbolo	IEC 60335-1	bole. Vup.	T
Clause	Requirement + Test Result - Re	emark	Verdid
tek Ar hotek	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	N
25.3	Appliance intended to be permanently connected to fixed wiring of the following means for connection to the supply mains:	provided with one	N
lek bu	- a set of terminals allowing the connection of a flexible cord	Anbotek Anbo	N
botek	- a fitted supply cord	anbotek Ar	N
Anbotek	- a set of supply leads accommodated in a suitable compartment	anbotek Anbotek	N
Anbolo Anbol	- a set of terminals for the connection of cables of fixed wiring, cross-sectional areas specified in 26.6, and the appliance allows the connection of the supply conductors after the appliance has been fixed to its support	Anbotek Anbotek Anbotek Anbotek	N
	- 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	N
ek Ani Dotek	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	Anbotek Anbot	N
25.4	Cable and conduit entries, rated current of appliance not exceeding 16 A, dimension according to table 10 (mm)	otek Anbotek	N
ak Anh	Introduction of conduit or cable does not reduce clearances or creepage distances below values specified in clause 29	Anbotek Anbo	N
25.5	Method for assembling the supply cord to the appliance:	, anbotek	
Pur Polek	- type X attachment	tek spojek	N
Vun.	- type Y attachment	lek spotek	N
Aug.	- type Z attachment, if allowed in relevant part 2	upo, bok bole	N
otek Ant	Type X attachment, other than those with a specially prepared cord, not used for flat twin tinsel cords	Anbotek Ant	N



Aupo,	IEC 60335-1	
Clause	Requirement + Test Result - Remark	Verdid
upotek An	For multi-phase appliances supplied with a supply cord and that are intended to be permanently connected to fixed wiring, the supply cord is assembled to the appliance by type Y attachment	N
25.6	Plugs fitted with only one flexible cord	N
25.7	Supply cords, other than for class III appliances, being one of the following types:	
Anbox	- rubber sheathed (at least 60245 IEC 53)	N
lok bu	- polychloroprene sheathed (at least 60245 IEC 57)	N
ipotek Lek	- polyvinyl chloride sheathed. Not used if they are likely to touch metal parts having a temperature rise exceeding 75 K during the test of clause 11	N
Anbotek	light polyvinyl chloride sheathed cord     (60227 IEC 52), for appliances not     exceeding 3 kg	N
rek Ant	ordinary polyvinyl chloride sheathed cord (60227 IEC 53), for other appliances	N
ibotek	- heat resistant polyvinyl chloride sheathed. Not used for type X attachment other than specially prepared cords	N
Anbotek	heat-resistant light polyvinyl chloride sheathed cord (60227 IEC 56), for appliances not exceeding 3 kg	N
ek Vupo.	heat-resistant polyvinyl chloride sheathed cord (60227 IEC 57), for other appliances	N
re/r	- halogen-free, low smoke, thermoplastic insulated and sheathed	N
Aupotek Po.	light duty halogen-free low smoke flexible cable (62821 IEC 101) for circular cable and (62821 IEC 101f) for flat cable	N
Anbote	Ordinary duty halogen-free low smoke flexible cable (62821 IEC 102) for circular cable and (62821 IEC 102f( for flat cable	N
potek An	Supply cords for class III appliances adequately insulated	N
Aupolek	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):	N
25.9	Supply cords not in contact with sharp points or edges	Р
25.10	Supply cord of class I appliances have a green/yellow core for earthing	N
Anbotek	In multi-phase appliances, the colour of the neutral conductor of the supply cord is blue	N



botek	IEC 60335-1	w. Totek Vupoter	Anb
Clause	Requirement + Test	Result - Remark	Verdict
Ams	Tok opolek Vipo, by.	aboten Anbo Lak and	ek.
otek An	Where additional neutral conductors are provided in	the supply cord:	N
unbotek Lok	<ul> <li>other colours may be used for these additional neutral conductors;</li> </ul>	Anbotek Anbotek A	N
	<ul> <li>all of the neutral conductors and line conductors are identified by marking using the alpha numeric notation specified in IEC 60445</li> </ul>	tek Anbotek Anbotek	N
Anbo	- the supply cord is fitted to the appliance	botek Anbots An-	N
25.11	Conductors of supply cords not consolidated by soldering where they are subject to contact pressure, unless	Anbotek Anbotek An	N
anboton	the contact pressure is provided by spring terminals	upotek Anbor	N
25.12	Insulation of the supply cord not damaged when moulding the cord to part of the enclosure	ek Anbotek Anbotek	N
25.13	Inlet openings so constructed as to prevent damage to the supply cord	potek Anbotek Anbo	N
nbotek Anbotek	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	Anbotek Anbotek An	N
Anbo.	If unsheathed supply cord, a similar additional bushing or lining is required, unless the appliance is	ok Anbotek Anbotek	N
de No.	class 0, or	por k wotek anboy	N
	a class III appliance not containing live parts	Anbore And atek an	N
25.14	Supply cords moved while in operation adequately protected against excessive flexing	Anbotek Anbotek	N
Potok	Flexing test, as described:	An otek anbotek	N
moto!	- applied force (N)::	And tek anbotek	N
P.U.	- number of flexings::	oter, Vupp.	N
les Vue	The test does not result in:	anbotek Anbot ak	N
Anbotek A	- short-circuit between the conductors, such that the current exceeds a value of twice the rated current	Anbotek Anbotek	N
Anbore	- breakage of more than 10% of the strands of any conductor	k Anbotek Anbotek	N
ale me	- separation of the conductor from its terminal	lote Aug tok upote	N
r Vuo	- loosening of any cord guard	Anboren Anbo	N
porer P	- damage to the cord or the cord guard	Aupotok Aupor Ak	N
Anbotek	- broken strands piercing the insulation and becoming accessible	Anbotek Anbotek	N



bojek	IEC 60335-1	upo	work anbore	VUL
Clause	Requirement + Test	Anbr	Result - Remark	Verdic
25.15	For appliances with supply cord and appliances be permanently connected to fixed wiring by a flexible cord, conductors of the supply cord relie from strain, twisting and abrasion by use of cord anchorage	eved	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N
Anbole	The cord cannot be pushed into the appliance to such an extent that the cord or internal parts of appliance can be damaged		lotek Anbotek Anbotek	N
lek W	Pull and torque test of supply cord:	Į.	Hotek Anbotek Anbo	N
botok	- fixed appliances: pull 100 N; torque (not on automatic cord reel) (Nm)	No.	Anbotek Anbotek Ar	N
Anborek Anborek	- other appliances: values shown in table 12: ma (kg); pull (N); torque (not on automatic cord reel (Nm)		ek Anbotek Anbotek	N
tek Anbo	Cord not damaged and max. 2 mm displacement the cord	nt of	potek Anbor Anbor	N
25.16	Cord anchorages for type X attachments constr	ucted	and located so that:	N
'ba	- replacement of the cord is easily possible	'GK	Anbo, ak hotek	N
Anbotek	- it is clear how the relief from strain and the prevention of twisting are obtained	botek	ak Anbotek Anbotek	N
nboi	- they are suitable for different types of supply of	ord	ok bolek Anbole	N
ek An	- cord cannot touch the clamping screws of cord anchorage if these screws are accessible, unless		anbotek Anbotek Anbot	N
botek	they are separated from accessible metal parts supplementary insulation	by	Anbotek Anbote An	N
Anbotek	- the cord is not clamped by a metal screw which bears directly on the cord	:h	Anbotek Anbotek	N
Anborr	- at least one part of the cord anchorage secure fixed to the appliance, unless	ely	lotek Anbotek Anbote	N
er Ani	it is part of a specially prepared cord		anbotek Anbote An	N
potek	- screws which have to be operated when repla the cord do not fix any other component, unless		Anbotek Anbotek	N
Anbotek	the appliance becomes inoperative or incomple the parts cannot be removed without a tool	te or	k Anbotek Anbotek	N
Anbore	- if labyrinths can be bypassed the test of 25.15 nevertheless withstood	is	otek Anbotek Anbote	N
Jotek Am	- for class 0, 0I and I appliances they are of insulating material or are provided with an insulating lining, unless	74-	Anbotek Anbotek Ant	N
Aupo, Potek	failure of the insulation of the cord does not mal accessible metal parts live	ke	Anbote And	N



bojek	IEC 60335-1	k wotek anbore	Die
Clause	Requirement + Test	Result - Remark	Verdic
Villa	ok hotek Anbo, Ar tek	abores Anb	ek.
ioh Vi	- for class II appliances they are of insulating material, or	Anborek Anborek Anb	N
anbotek	if of metal, they are insulated from accessible metal parts by supplementary insulation	Anbotek Anbotek	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	tek Anbotek Anbotek	N
25.17	Adequate cord anchorages for type Y and Z attachment, test with the cord supplied with the appliance	Anbotek Anbotek Anbo	N
25.18	Cord anchorages only accessible with the aid of a tool, or	Anbotek Anbotek	Р
Aupora	Constructed so that the cord can only be fitted with the aid of a tool	ek Anbotek Anbotek	N
25.19	Type X attachment, glands not used as cord anchorage in portable appliances	pose Aupotek Pupo,	N
botek	Tying the cord into a knot or tying the cord with string not used	Aupotek Vupoten Vi	N
25.20	The conductors of the supply cord for type Y and Z attachment insulated from accessible metal parts	ak Anbotek Anbotek	N
25.21	Space for supply cord for type X attachment or for constructed:	onnection of fixed wiring	N
Potek Vu	- to permit checking of conductors with respect to correct positioning and connection before fitting any cover	Anbotek Anbotek An	N
Anbore,	- so there is no risk of damage to the conductors or their insulation when fitting the cover	Anbotek Anbotek	N
ak Antook	- 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	N
potek	2 N test to the conductor for portable appliances; no contact with accessible metal parts	Anbotek Anbotek An	N
25.22	Appliance inlets:	Aupon Burn	N
Aupor	- live parts not accessible during insertion or removal	kek Aupotek Autotek	N
ar Ant	Requirement not applicable to appliance inlets complying with IEC 60320-1	anbotek Anbotek Anbot	N
otek	- connector can be inserted without difficulty	anbotek Anbote An	N
anbolek.	- the appliance is not supported by the connector	abotek Anbotes	N
Anbotek	- not for cold conditions if temp. rise of external metal parts exceeds 75 K during clause 11, unless	k aupotek Vupotek	N



Arbois	IEC 60335-1	tok vupoten vupo	
Clause	Requirement + Test	Result - Remark	Verdict
-yr br.	otak Ambaten Amba Lak botek	pore Ann	iek
yer An	the supply cord is unlikely to touch such metal parts	Thotek Anbo, A.	N
25.23	Interconnection cords comply with the requirements that:	for the supply cord, except	N
	- the cross-sectional area of the conductors is determined on the basis of the maximum current during clause 11	lek Anbotek Antotek	N
Anbo	- the thickness of the insulation may be reduced	botek Anbor An	N
hotek hotek	- for class I or class II appliance with class III construction, the cross sectional areas of the conductors need not comply with 25.8 if specified conditions are met	Anbotek Anbotek An	N
All alok	If necessary, electric strength test of 16.3	And tek abotek	N
25.24	Interconnection cords not detachable without the aid of a tool if compliance with this standard is impaired when they are disconnected	botek Anbotek Anbotek	N
25.25	Dimensions of pins that are inserted into socket- outlets compatible with the dimensions of the relevant socket-outlet.	Aupotek Aupotek Au	N
Anbotek	Dimensions of pins and engagement face in accordance with the dimensions of the relevant plug in IEC/TR 60083	ok Anbotek Anbotek	N
26	TERMINALS FOR EXTERNAL CONDUCTORS		
26.1	Appliances provided with terminals or equally effective devices for connection of external conductors	Anbotek Anbotek An	Р
Anbote	Terminals only accessible after removal of a non- detachable cover, except	Anbotek Anbotek	Р
Vi.	for class III appliances that do not contain live parts	Anto tek shotek	Р
ootek Anb	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	Anbotek Anbotek Anbot	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	k Anbotek Anbotek	N
Vun	the connections are soldered	oter Anbo ak cots	N
otek Pup,	Screws and nuts not used to fix any other component, except	Anbotek Anbotek Ant	N
Anbotek Notek	internal conductors, if so arranged that they are unlikely to be displaced when fitting the supply conductors	Ambotek Anbotek	N

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botek	IEC 60335-1	work anbore	Vice
Clause	Requirement + Test	Result - Remark	Verdict
ALL	ok hotek Anbor An	abotel Anbe	ek
nbotek A	If soldered connections used, the conductor so positioned or fixed that reliance is not placed on soldering alone, unless	Anbotek Anbotek Anb	N
Anbotek Anbotek	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	tek Anbotek Anbotek Anbotek Anbotek Anbotek	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
Anbore	Terminals fixed so that when the clamping means is	tightened or loosened:	N
Anbol	- the terminal does not become loose	stek anbotek Anbot	N
rek or	- internal wiring is not subjected to stress	tek abotek Anbo	N
botek	- neither clearances nor creepage distances are reduced below the values in clause 29	Anbotek Anbotek Ar	N
Anbotek Anbotek	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)	lek Anbotek Anbotek	N
alt has	No deep or sharp indentations of the conductors	poole And stek subot	N
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	Anbotek Anbotek Anbotek An	N
Anbot Anbot	so constructed or placed that conductors prevented from slipping out when clamping screws or nuts are tightened		N
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	Anbotek Anbotek An	N
anbotek	Stranded conductor test, 8 mm insulation removed	ak abotek Anbotes	N
Anbore	No contact between live parts and accessible metal parts and,	hotek Anbotek Anbotek	N
otek Ant	for class II constructions, between live parts and metal parts separated from accessible metal parts by supplementary insulation only	Anbotek Anbotek Ant	N

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	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
Vien	ak hotek Anbo, An tek	aboter Anbo	ek-
26.6	Terminals for type X attachment and for connection of cables of fixed wiring suitable for connection of conductors with cross-sectional area according to table 13; rated current (A); nominal cross-sectional area (mm²)	Anbotek Anbotek Anbotek Anbotek Anbotek	N
Anbore	If a specially prepared cord is used, terminals need only be suitable for that cord	lek Anbotek Anbotek	N
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 Anbo	N
26.8	Terminals for the connection of fixed wiring, including the earthing terminal, located close to each other	Anbotek Anbotek	N
26.9	Terminals of the pillar type constructed and located as specified	otek Anbotek Anbotek	N
26.10	Terminals with screw clamping and screwless terminals not used for flat twin tinsel cords, unless	Anbotek Anbotek Anbo	N
botek	conductors ends fitted with means suitable for screw terminals	Anborek Anbo. A	N
Vi.	Pull test of 5 N to the connection	And sek spotek	N
26.11	For type Y and Z attachment, soldered, welded, crimped or similar connections may be used	ok Ambatek Anbotek	Р
lotek An	For Class II appliances, the conductor so positioned or fixed that reliance is not placed on soldering, welding or crimping alone	Ambotek Ambotek Ambo	Р
Anbotek Anbotek Anbot	If soldering, welding or crimping alone used, barriers provided so that clearances and creepage distances between live parts and other metal parts are not reduced below the values for supplementary insulation if the conductor becomes free	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Р
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	N
Aupore	Earthing terminals and earthing contacts not connected to the neutral terminal	Anbotek Anbotek	N
ak Ant	Class 0, II and III appliances have no provision for protective earthing	nbotek Anbotek Anbote	N
ootek otek	Class II appliances and class III appliances can incorporate an earth for functional purposes	Anbotek Anbotek An	N
Ann	Safety extra-low voltage circuits not earthed, unless	Aupo, Amariek	N
Aupor	protective extra-low voltage circuits	k apolog Augo	N

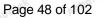




botek	IEC 60335-1	work anbore	VUE
Clause	Requirement + Test	Result - Remark	Verdic
Villa	ok hotek Anbo, A.,	aboten Anbo	ek
27.2	Clamping means of earthing terminals adequately secured against accidental loosening	Anbotek Anbotes Anb	N
Anbotek Anbotek	Terminals for the connection of external equipotential bonding conductors allow connection of conductors of 2.5 to 6 mm², and	Anbotek Anbotek	N
Anbo	- do not provide earthing continuity between different parts of the appliance, and	lek Anbotek Arbotek	N
lok W	- conductors cannot be loosened without the aid of a tool	Anbotek Anbotek Anbo	N
Vuposek Viposek	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	Anbotek Anbotek	N
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	botek Anbotek Anbotek Anbotek Anbotek Anbotek	N
Anbotek	For appliances with supply cords, current-carrying conductors become taut before earthing conductor, if the cord slips out of the cord anchorage	Anbotek Anbotek	N
Anbolo	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	ek Anbotek Anbotek	N
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	Amborek Amborek Am	N
Anbotek	Parts providing earthing continuity, other than parts of a metal frame or enclosure, have adequate resistance to corrosion	ak Anbotek Anbotek	N
Anbor	If of steel, these parts provided with an electroplated coating with a thickness at least 5 µm	sotek Anbotek Anbot	N
potek An	Adequate protection against rusting of parts of coated or uncoated steel, only intended to provide or transmit contact pressure	Anbotek Anbotek An	N
Anbotek 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	k Anbotek Anbotek	N
ark Ant	Requirements not applicable to class II appliances and class III appliances that incorporate an earth for functional purposes	Anbotek Anbotek Anbote	N
27.5	Low resistance of connection between earthing terminal and earthed metal parts	Vipotek Vipo	N



botek	Anbor All	IEC 60335-1	'upo	" work	anbote.	VUL
Clause	Requirement + Test	h. Bubolek	Anbr	Result - Remark	<b>Aupotek</b>	Verdic
lotek Ar	This requirement does not apply providing earthing continuity in the low voltage circuit, provided the insulation are based on the rated appliance	ne protective ex clearances of b	ktra- basic	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek Sotek	N
Anbore.	Requirements not applicable to cand class III appliances that incomo for functional purposes			lek Aupolek	Anbotek Anbotek	N
ick bu	Resistance not exceeding 0,1 $\Omega$ low-resistance test ( $\Omega$ )	at the specified	d :	Anbotek Anbotes	ik Pup	N
27.6	The printed conductors of printed used to provide earthing continu appliances.			Anbotek Ant	otek	N
Anbot Anbot	They may be used to provide ea other appliances if at least two tr independent soldering points and complies with 27.5 for each circumstance.	acks are used d the appliance	with	botek Anbotek	Anbotek Anbot	N
botek	Requirements not applicable to cand class III appliances that incofor functional purposes			Anbotek Anbote	Olek Vi	N
28	SCREWS AND CONNECTIONS	3				
28.1	Fixings, electrical connections as providing earthing continuity with stresses			potek Ambotek	Anboten Anbot	Р
potek	Screws not of soft metal liable to zinc or aluminium	creep, such a	S	Anbotek Anbotel	e An	Р
Anbotek	Diameter of screws of insulating 3 mm	material min.	bolek	Anbotek Anb	nbotek	Р
Anbot	Screws of insulating material not electrical connections or connectearthing continuity		Anbot	Dotek Anbotek	Anbotek	Р
olek bu	Screws used for electrical connections providing earthing clinto metal		/ed	Anbotek Anbotek	iek An'	Р
Anborek	Screws not of insulating material replacement by a metal screw ca supplementary or reinforced insu	an impair	ootek Anbote	Anbotek And	hotek	Р
otek Anb	For type X attachment, screws to replacement of supply cord or fo maintenance, not of insulating maintenance in the replacement by a metal screw in insulation	r user aterial if their	or And	otek Anbotek Anbotek Anbotek	Anbohi Anb	N
Vupo.	For screws and nuts; torque-tes table 14		Prek	(see appended table)	motek	Р



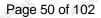


	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
28.2	Electrical connections and connections providing earthing continuity constructed so that contact pressure is not transmitted through non-ceramic insulating material liable to shrink or distort, unless	Anbotek Anbotek Anbotek	P
Anbotek Anbotek	there is resiliency in the metallic parts to compensate for shrinkage or distortion of the insulating material	oriek Anbotek Anbotek	N
lek bu	This requirement does not apply to electrical conne for which:	ctions in circuits of appliances	
ipotek	30.2.2 is applicable and that carry a current not exceeding 0,5 A	Anbotek Anbotek A	N
Anbotek	30.2.3 is applicable and that carry a current not exceeding 0,2 A	ek anbotek Anbotek	N
28.3	Space-threaded (sheet metal) screws only used for electrical connections if they clamp the parts together	Anbotek Anbotek Anbote	Р
Anbotek Anbotek	Thread-cutting (self-tapping) screws and thread rolling screws only used for electrical connections if they generate a full form standard machine screw thread	Anbotek Anbotek An	N
Anbo's	Thread-cutting (self-tapping) screws not used if they are likely to be operated by the user or installer	orek Anborek Anborek	N
potek Au	Thread-cutting, thread rolling and space threaded s connections providing earthing continuity provided i connection:		
Aupole	- in normal use,	r Aupotek Aupor	N
Anboten	- during user maintenance,	tak vupojek Vupoje	N
Anbote	- when replacing a supply cord having a type X attachment, or	nbotek Anbotek Anbote	N
an'	- during installation	Anbotek Anbo. Ak	N
potek	At least two screws being used for each connection providing earthing continuity, unless	Anbotek Anbotek An	N
Anbotek	the screw forms a thread having a length of at least half the diameter of the screw	Anbotek Anbotek	N
28.4	Screws and nuts that make mechanical connection secured against loosening if they also make electrical connections or connections providing earthing continuity	nhotek Anbotek Anbote Anbotek Anbotek Anbote	Р
Anbolek	This requirement does not apply to screws in the earthing circuit if at least two screws are used, or	Anbotek Anbotek	Р
botek	if an alternative earthing circuit is provided	otek anbotek	Р



, botek	IEC 60335-1	notek anbore	Vun
Clause	Requirement + Test	Result - Remark	Verdic
ipotek V	Rivets for electrical connections or connections providing earthing continuity secured against loosening if the connections are subjected to torsion	Anbotek Anbotek Anbotek	P
29	CLEARANCES, CREEPAGE DISTANCES AND SO	DLID INSULATION	
Anbo	Clearances, creepage distances and solid insulation withstand electrical stress	lek Anbotek Anbotek	Р
ek Ar	For coatings used on printed circuits boards to protect the microenvironment (Type 1) or to provide basic insulation (Type 2), Annex J applies:	Anbotek Anbotek Anbo	lootek N
Anbotek	The microenvironment is pollution degree 1 under type 1 protection	Anbotek Anbotek	N
Anbora Anbor	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	botek Anbotek Anbotek	N
botek	These values apply to functional, basic, supplementary and reinforced insulation:	Anbotek Anbotek An	Р
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
ek An	for basic insulation and functional insulation they comply with the impulse voltage test of clause 14	botek Anbotek Anbot	Р
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 mm and the impulse voltage test is not applicable	Anbotek Anbotek Anbotek	N
ak Anboh	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	orek Anborek Anborek Anborek	Р
-tok	Impulse voltage test is not applicable:	Aupo, W. Wolek	
Anbotek	- when the microenvironment is pollution degree 3, or	k apotek Ambotek	Р
Anbore	- for basic insulation of class 0 and class 01 appliances, or	otek Anbotek Anbotes	N
otek Ant	- to appliances intended for use at altitudes exceeding 2 000 m	Anbotek Anbotek Ant	Р
Nek	Appliances are in overvoltage category II	Vupo. Votek	Р
Anbarborek	A force of 2 N is applied to bare conductors, other than heating elements	Anboth Anbotek	N

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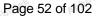


-boish	IEC 60335-1	anbo's	br.
Clause	Requirement + Test	Result - Remark	Verdic
Vi.	Jok abotek Anbo A. A. atek	nboten Anb	ek
Sex Vi	A force of 30 N is applied to accessible surfaces	abotok Anbore An	N
29.1.1	Clearances of basic insulation withstand the overvoltages, taking into account the rated impulse voltage	Anbotek Anbotek	Р
Anbotek	The values of table 16 or the impulse voltage test of clause 14 are applicable:	(see appended table)	Р
rek Anbo	Clearance at the terminals of tubular sheathed heating elements may be reduced to 1,0 mm if the microenvironment is pollution degree 1	Potek Vupolek Vupo	N
hotek	Lacquered conductors of windings considered to be bare conductors	Anbotek Anbotek	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	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 Anbotek Anbotek	Р
29.1.4	Clearances for functional insulation are the largest v	ralues determined from:	
Pu,	- table 16 based on the rated impulse voltage :	(see appended table)	Р
potek	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz	Anbotek Anbotek	Р
Anbotek	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz	ak Anbotek Anbotek	N
ek Aupoli	If values of table 16 are largest, the impulse voltage test of clause 14 may be applied instead, unless	potek Amborok Ambor	N
No.	the microenvironment is pollution degree 3, or	Anbore Ans	N
potek	the distances can be affected by wear, distortion, movement of the parts or during assembly	Anborek Anborek	N
Anbotek	However, clearances are not specified if the appliance complies with clause 19 with the functional insulation short-circuited	k Anbotek Anbotek	N
ak Anb	Lacquered conductors of windings considered to be bare conductors	Anbotek Anbotek Anbot	Р
potek	However, clearances at crossover points are not measured	Vupotek Vupotek Vu	Р
Augotek Vun	Clearance between surfaces of PTC heating elements may be reduced to 1mm	k hotek Anbotek	N

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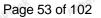


hotek	IEC 60335-1	Ann
Clause	Requirement + Test Result - Remark	Verdict
29.1.5	Appliances having higher working voltages than rated voltage, clearances for basic insulation are the largest values determined from:	
'upore,	- table 16 based on the rated impulse voltage :	Р
Anborek	- table F.7a in IEC 60664-1, frequency not exceeding 30 kHz	Р
Anbo	- clause 4 of IEC 60664-4, frequency exceeding 30 kHz	N
nbotek Anbotek	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	Р
Anboron Anbor	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	Р
Anbotek Anbotek	If clearances for basic insulation are selected from Clause 4 of IEC 60664-4, the clearances of reinforced insulation are twice the value required for basic insulation	Р
tek Anbotek	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	Р
Anbotek Anbot	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	Р
29.2	Creepage distances not less than those appropriate (see appended table) for the working voltage, taking into account the material group and the pollution degree:	Р
Aupoles.	Pollution degree 2 applies, unless	Р
Anboten	- precautions taken to protect the insulation; pollution degree 1	N
ek Ant	- insulation subjected to conductive pollution; pollution degree 3	N
botek botek	A force of 2 N is applied to bare conductors, other than heating elements	N
4.077	Br. 104 VOS. 107 VOS.	t





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Clause	Requirement + Test	Result - Remark	Verdic
Vien	ak notek Anbo. All tek	abotek Anbe	iek.
nbotek notek	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	Anbo K otok	Р
29.2.1	Creepage distances of basic insulation not less than specified in table 17	(see appended table)	Р
tek Anbot	However, if the working voltage is periodic and had 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	Aupotek Aupotek Aupo	N
Anbotak Anbotak	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	nbolek Anbotek Anbotek Nbolek Anbotek Anbotek	N
29.2.2	Creepage distances of supplementary insulation a least those specified for basic insulation in table 1 or	7, Andrew Ar	Р
abotek	Table 2 of IEC 60664-4, as applicable	ok botek Anbote	Р
29.2.3	Creepage distances of reinforced insulation at lea double those specified for basic insulation in table 17, or	looler And	Р
iek ont	Table 2 of IEC 60664-4, as applicable	Ar botek Anbo	Р
29.2.4	Creepage distances of functional insulation not let than specified in table 18	(see appended table)	Р
Anbotek Anbotek	However, if the working voltage is periodic and had 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	Р
potek Anb	Creepage distances may be reduced if the appliance complies with clause 19 with the functional insulation short-circuited	Ambotek Ambotek Am	Р
29.3	Supplementary and reinforced insulation have adequate thickness, or a sufficient number of layers, to withstand the electrical stresses	ek Anbotek Anbotek	Р
Aupole	Compliance checked:	otek Anbotek Anbote	
dna 4s	- by measurement, in accordance with 29.3.1, or	An Anbot	Р
ootek I	- by an electric strength test in accordance with 29.3.2, or	Anbotek Anbotek Ant	Р





botek	IEC 60335-1	k week anbore	Vien
Clause	Requirement + Test	Result - Remark	Verdic
Ann	Tok Motek Anbo, Ali	aboten Anb	,eK
upotek A	- for insulation, other than single layer internal wiring insulation, by an assessment of the thermal quality of the material combined with an electric strength test, in accordance with 29.3.3, and	Anbotek Anbotek Anbotek A	Р
Anbotek	for accessible parts of reinforced insulation consisting of a single layer, by measurement in accordance with 29.3.4, or	lek Anbotek Anbotek	N
	- 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	Р
Anborek	- 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	ek Anbotek Anbotek	Р
29.3.1	Supplementary insulation have a thickness of at least 1 mm	botek Anbotek Anbo	Р
bolek	Reinforced insulation have a thickness of at least 2 mm	Aupotek Aupoten At	Р
29.3.2	Each layer of material withstand the electric strength test of 16.3 for supplementary insulation	Anbotek Anbotek	Р
Anbot	Supplementary insulation consist of at least 2 layers	botek Anbotek Anbotek	Р
iek bu	Reinforced insulation consist of at least 3 layers	bolek Anbole And	Р
29.3.3	The insulation is subjected to the dry heat test Bb of IEC 60068-2-2, followed by	Anbotek Anbotek An	N
Aupo, ok	the electric strength test of 16.3	Anbole Another	N
Anbot	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	ak Anbotek Anbotek	N
29.3.4	Thickness of accessible parts of reinforced insulation consisting of a single layer not less than specified in table 19:	Anbotek Anbotek An	N
30	RESISTANCE TO HEAT AND FIRE		
30.1	External parts of non-metallic material,	k supotek Aupon	Р
anbote	parts supporting live parts, and	tek shotek Anbores	Р
ant Ant	parts of thermoplastic material providing supplementary or reinforced insulation	unbotek Anbotek Anbot	Р
otek	sufficiently resistant to heat	abotek Anboten An	Р
hotek	Ball-pressure test according to IEC 60695-10-2	Projek Supotek	Р



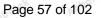
botek	IEC 60335-1	k notek anboten	And
Clause	Requirement + Test	Result - Remark	Verdict
otek An	External parts tested at 40 °C plus the maximum temperature rise determined during the test of clause 11, or at 75 °C, whichever is the higher; temperature (°C)	(see appended table 30.1)	P
Anbotek Anbot	Parts 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
nbotek 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	ek Anbotek Anbotek	Р
v Vupos	This requirement does not apply to:	botek Anbores Anso	
nbotek Ant	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	Anbotek Anbotek Anbotek	Р
Anbotek	decorative trims, knobs and other parts unlikely to be ignited or to propagate flames that originate inside the appliance	ek Anbotek Anbotek	Р
itek bu	Compliance checked by the test of 30.2.1, and in addition:	potek Anbotek Anbot	
potek	- for attended appliances, 30.2.2 applies	Mark Anbotek An	N
hotek	- for unattended appliances, 30.2.3 applies	Ann otek anbotek	Р
Pur Otok	For appliances for remote operation, 30.2.3 applies	Anto tek abotek	N
Anbore	For base material of printed circuit boards, 30.2.4 applies	otek 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
Aupotek Ipo,	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	Anbotek Anbotek	Р
Anbote	the material is classified at least HB40 according to IEC 60695-11-10	tek anbotek Anbotek	Р
botek Anb	Parts for which the glow-wire test cannot be carried out need to meet the requirements in ISO 9772 for material classified HBF	Ambotek Ambotek Ambot	Р
30.2.2	Appliances operated while attended, parts of non- metallic material supporting current-carrying connections, and	Ambotek Ambotek	N



	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdic
VIII	Took abotek Anbo Arbo Arbok	nbole And	ek
yer An	parts of non-metallic material within a distance of 3mm of such connections,	Anbotek Anbote And	N
anbotek	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	(see appended table 30.2)	N
Anbotek	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation	olek Vupolek Vupolei	N
Aupo	- 650 °C, for other connections	a botek Anbot At No	N
tek An	Glow-wire applied to an interposed shielding material, if relevant	Anbotek Anbotek An	N
Aupolek	The glow-wire test is not carried out on parts of mat glow-wire flammability index according to IEC 6069		N
Anborek	- 750 °C, for connections carrying a current exceeding 0,5 A during normal operation	olek Anbotek Anbotek	N
N. Dun	- 650 °C, for other connections	Alpoter Ando	N
Vu.	The glow-wire test is also not carried out on small p	arts. These parts are to:	N
Anbotek Anbotek	- comprise material having a glow-wire flammability index of at least 750 °C, or 650 °C as appropriate, or	Anbotek Anbotek	N
Anbore	- comply with the needle-flame test of Annex E, or	(see appended table 30.2/30.2.4)	N
ek Ant	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10:	rpole Anbotek Arbot	N
potek.	Glow-wire test not applicable to conditions as specified:	Anbotek Anboten An	N
30.2.3	Appliances operated while unattended, tested as specified in 30.2.3.1 and 30.2.3.2	Aupotek Aupotek	Р
Anbore	The tests are not applicable to conditions as specified:	nbotek Anbotek Anbotek	Р
30.2.3.1	Parts of non-metallic material supporting connections carrying a current exceeding 0,2 A during normal operation, and	Anbotek Anbotek An	Р
Anborek	parts of non-metallic material, other than small parts, within a distance of 3 mm,	Anbotek Anbotek	Р
Anborel	subjected to the glow-wire test of IEC 60695-2-11 with a test severity of 850 °C	(see appended table 30.2)	Р
ek Aup	Glow-wire applied to an interposed shielding material, if relevant	Anbotek Anbotek Anbo	Р
Anbotek 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	Р

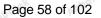


-botek	IEC 60335-1	K wotek anbore	Villa
Clause	Requirement + Test	Result - Remark	Verdic
Arra	ok hotek Anbor An	ipoley Aupe	ek.
30.2.3.2	Parts of non-metallic material supporting connections, and	Anbotek Anboten Anb	Р
anbotek	parts of non-metallic material within a distance of 3mm,	Anbotek Anbotek	Р
Anbotek	subjected to the glow-wire test of IEC 60695-2-11 with appropriate severity level:	(see appended table 30.2)	Р
ek an	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation	potek Auporo Auro	Р
Nok	- 650 °C, for other connections	Anber Ak abotek A	N
Anbolek	Glow-wire applied to an interposed shielding material, if relevant	Anbotek Anbotek	N
Anbotek	However, the glow-wire test of 750 °C or 650 °C as a on parts of material fulfilling both or either of the follow		
ek An	- a glow-wire ignition temperature according to IEC 60695-2-13 of at least:	botek Anbotek Anbo	
potek - ok	775 °C, for connections carrying a current exceeding 0,2 A during normal operation	Anbotek Anbotek Ar	N
Vupor	675 °C, for other connections	Anbores Anti-	N
Anboren	- a glow-wire flammability index according to IEC 60695-2-12 of at least:	ek Aupotek Aupotek	
sk Pul	- 750 °C, for connections carrying a current exceeding 0,2 A during normal operation	Josek Anbotek Anbot	Р
potek	- 650 °C, for other connections	botek Anbotes An	Р
bolek	The glow-wire test is also not carried out on small par	rts. These parts are to:	
Anbotek Anbotek	- comprise material having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	k Anbotek Anbotek	N
otek Ant	- comprise material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	Anbotek Anbotek Anbot	N
Lotok	- comply with the needle-flame test of Annex E, or	Augo sek augosek	N
Anbotek	- comprise material classified as V-0 or V-1 according to IEC 60695-11-10	k Anbotek Anbotek	N
k Anbore	The consequential needle-flame test of Annex E applience and on top of the non-metallic parts supporting and parts of non-metallic material within a distance of these parts are those:	e centre of the connection current-carrying connections,	
unbotek 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	Р





bojek	IEC 60335-1	notek anbois	Ann
Clause	Requirement + Test	Result - Remark	Verdic
Aria	ok potek Aupo, A., tek	boton Anb	e <sup>K</sup>
	- parts that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	Anbotek Anbotek Anb	Р
Anbotek Anbotek	- small parts, that comprised material having a glow-wire flammability index of at least 750 °C or 650 °C as appropriate, or	Rek Anbotek Anbotek	Р
Anbo	- small parts for which the needle-flame test of Annex E was applied, or	botek Anbotek Anbo	N
<sup>upotek</sup>	- small parts for which a material classification of V-0 or V-1 was applied	Anbotek Anbotek	Р
Anbotek	However, the consequential needle-flame test is not parts, including small parts, within the cylinder that a		
Anbo	- parts having a glow-wire ignition temperature of at least 775 °C or 675 °C as appropriate, or	ek Anbotek Anbotek	N
lek An	- parts comprising material classified as V-0 or V-1 according to IEC 60695-11-10, or	Anbotek Anbo	Р
Anbotek Anbotek	- parts shielded by a flame barrier that meets the needle-flame test of Annex E or that comprises material classified as V-0 or V-1 according to IEC 60695-11-10	Anbotek Anbotek	Р
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
iek Ani	Test not applicable to conditions as specified:	notek Anbores Anbo	N
31	RESISTANCE TO RUSTING	-0"	
Anbotek	Relevant ferrous parts adequately protected against rusting	Anbotek Anbotek	Р
Anbore	Tests specified in part 2 when necessary	ek Pupoley Vupo.	Р
32	RADIATION, TOXICITY AND SIMILAR HAZARDS	10	
botek Ant	Appliance does not emit harmful radiation or present a toxic or similar hazard due to their operation in normal use	Anbotek Anbotek Anbot	N
Anbotek	Compliance is checked by the limits or tests specified in part 2, if relevant	Ambotek Ambotek	N
Α	ANNEX A (INFORMATIVE) ROUTINE TESTS		
ek Anb	Description of routine tests to be carried out by the manufacturer	Opotek Aupotek Vupote	Р
В	ANNEX B (NORMATIVE) APPLIANCES POWERED BY RECHARGEABLE B RECHARGED IN THE APPLIANCE	ATTERIES THAT ARE	

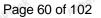




-pois.	IEC 60335-1	k crek anboy	br.
Clause	Requirement + Test	Result - Remark	Verdict
otek An	The following modifications to this standard are applicable for appliances powered by batteries that are recharged in the appliance	Anbotek Anbotek Anbotek	P
anbolek.	Three forms of construction covered:	k abotek Anbores	
Anbotek	a) Appliance supplied directly from the supply mains or a renewable energy source, the battery charging circuitry and other supply unit circuitry incorporated within the appliance	lek Aupotek Aupotek	Р
nbotek 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	Anbotek Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	N
nbotek Ant	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	Anbotek Anbotek Anbo	N
3.1.9	Appliance operated under the following conditions:	. nbotek Anbote	
	- the appliance, supplied by its fully charged battery, operated as specified in relevant part 2	ak Anbotek Anbotek	N
rek Anho.	- the battery is charged, the battery being initially discharged to such an extent that the appliance cannot operate	potek Anbotek Anbot	Р
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	Р
ek Anbara	- 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 Anbotek Anbot	N
3.6.2	Part to be removed in order to discard the battery is not considered to be detachable	Anbotek Anbotek	Р
5.B.101	Appliances supplied from the supply mains tested as specified for motor-operated appliances	k Anbotek Anbotek	Р
7.1	Battery compartment for batteries intended to be replaced by the user, marked with battery voltage (V) and polarity of the terminals:	Anbotek Anbotek Anbote	N
Anbotek	The positive terminal indicated by symbol IEC 60417-5005 and the negative terminal by symbol IEC 60417-5006	Anbotek Anbotek	N



-boten	IEC 60335-1	Total Aupor	b.c.
Clause	Requirement + Test	Result - Remark	Verdic
ipotek Ar	Appliances intending to be supplied from a detachable supply unit marked with symbol IEC 60417-6181 and its type reference along with symbol ISO 7000-0790 (2004-01), or	Anbotek Anbotek Anbotek	N
Anna	use only with <model designation=""> supply unit:</model>	Anbo Lek abolek	No.
7.6	Additional symbols	lek Aupo, ek motek	Р
7.12	The instructions give information regarding charging	lootek Anboro Anbo	Р
,botek	Instructions for appliances incorporating batteries intended to be replaced by the user include required information	Anbotek Anbotek A	Р
Anbotek	Instructions for appliances containing non user-repla substance of the following:	ceable batteries state the	
ak Anbol	This appliance contains batteries that are only replaceable by skilled persons	botek Anbotek Anbo	N
ipotek An	Instructions for appliances containing non-replaceab substance of the following:	le batteries shall state the	
Anbotek	This appliance contains batteries that are non-replaceable	Anbotek Anbotek	Р
Anbo'	For appliances intending to be supplied from a detact purposes of recharging the battery, the type reference unit is stated along with the following:		
potek An	WARNING: For the purposes of recharging the battery, only use the detachable supply unit provided with this appliance	Anbotek Anbotek An	Р
Anborek	If the symbol for detachable supply unit is used, its meaning is explained	Anbotek Anbotek	Р
7.15	Markings placed on the part of the appliance connected to the supply mains	otek Ambotek Ambotek	Р
ak Ani	The type reference of the detachable supply unit is placed in close proximity to the symbol	Anbotek Anbotek Anbo	Р
3.2	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	Ambotek Ambotek Ambotek	N
Anbore	If the appliance can be operated without batteries, double or reinforced insulation required	otek Anbotek Anbotek	N
11.7 Ant	The battery is charged for the period stated in the instructions or 24 h	Anbotek Anbotek Anbot	Р
11.8	Temperature rise of the battery surface does not exceed the limit in the battery manufacturer's specification; measured (K); limit (K):	Anbotek Anbotek	Р



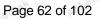


, boiek	IEC 60335-1	work anbore	Direc
Clause	Requirement + Test	Result - Remark	Verdic
Vien	ak hotek Aupo, W. tek	abover Ando	ek-
yek An	If no limit specified, the temperature rise does not exceed 20 K; measured (K):	Anbotek Anbotek Anb	Р
19.1	Appliances subjected to tests of 19.B.101, 19.B.102 and 19.B.103	Anborek Anborek	Р
19.10	Not applicable	ok hotek Anboten	N
19.B.101	Appliances supplied at rated voltage for 168 h, the battery being continually charged	potek Anbotek Anbote	Р
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 Anbotek 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	ek Anbotek Anbotek	N
19.13	The battery does not rupture or ignite	botek Anbote And	Р
21.B.101	Appliances having pins for insertion into socket- outlets have adequate mechanical strength	Anbotek Anbotes As	N
Aupotek	Part of the appliance incorporating the pins subjected procedure 2, of IEC 60068-2-31, the number of falls		
Anbore	- 100, if the mass of the part does not exceed 250 g (g):	potek Anbotek Anbotek	N
ISH VUP	- 50, if the mass of the part exceeds 250 g:	botek Anbors Am	N
ipotek	After the test, the requirements of 8.1, 15.1.1, 16.3 and clause 29 are met	Ambotek Ambotek Am	N
22.3	Appliances having pins for insertion into socket- outlets tested as fully assembled as possible	Anbotek Anbotek	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	Anbotek Anbotek Anbote	N
30.2	For parts of the appliance connected to the supply mains during the charging period, 30.2.3 applies	Anbotek Anbotek	N
abotek	For other parts, 30.2.2 applies	k Lotek Anbotek	N
С	ANNEX C (NORMATIVE) AGEING TEST ON MOTORS		
potek Anbr	Tests, as described, carried out when doubt with regard to the temperature classification of the insulation of a motor winding	Anbotek Anbotek Anb	N
Anbolek	Test conditions as specified	potek Anbores	N
D	ANNEX D (NORMATIVE) THERMAL MOTOR PROTECTORS	V V	



bojek	IEC 60335-1	Anbotes.	And
Clause	Requirement + Test	Result - Remark	Verdic
nbotek An	Applicable to appliances having motors that incorporate thermal motor protectors necessary for compliance with the standard	Anbotek Anbotek Anbotek	P
abolek	Test conditions as specified	abotek Anbores	Р
E	ANNEX E (NORMATIVE) NEEDLE-FLAME TEST		
tek vupo	Needle-flame test carried out in accordance with IEC following modifications:	60695-11-5, with the	N
7	Severities	Aupote, Yun	N
anbotek Abotek	The duration of application of the test flame is 30 s ± 1 s	Anbotek Anbotek	N
9 Amborek	Test procedure	tok botek Anbores	N
9.1	The specimen so arranged that the flame can be applied to a vertical or horizontal edge as shown in the examples of Figure 1	botek Anbotek Anbotek	N
9.2	The first paragraph does not apply	Aupa sek upotek Au	N
Anbotek	If possible, the flame is applied at least 10 mm from a corner	Anbotek Anbotek	N
9.3	The test is carried out on one specimen	ek Anbotek Anbot	N
tek Anbore	If the specimen does not withstand the test, the test may be repeated on two additional specimens, both withstanding the test	ootek Anbotek Anbote	N
11,e%	Evaluation of test results	Anto dek antodek An	N
-otek	The duration of burning not exceeding 30 s	Pupp.	N
Anbotek	However, for printed circuit boards, the duration of burning not exceeding 15 s	Anbotek Anbotek	N
F	ANNEX F (NORMATIVE) CAPACITORS		
Potek Vu	Capacitors likely to be permanently subjected to the radio interference suppression or voltage dividing, co clauses of IEC 60384-14, with the following modifica	omply with the following	N
1.5	Terms and definitions	Aupotek Aupo,	N
1.5.3	Class X capacitors tested according to subclass X2	k Anbotek Anbox	N
1.5.4	This subclause is applicable	otek Anbotek Anbote	N
1.6	Marking	atek anbotek Anbot	N
otek	Items a) and b) are applicable	Anto. Anto Anto Anto	N
3.4	Approval testing	Anbo. A. botek	N
3.4.3.2	Table 3 is applicable as described	Aupor An Motek	N
4.1	Visual examination and check of dimensions	ak Anboro And	N

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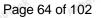




, boten	IEC 60335-1		br.
Clause	Requirement + Test Result - Remark	potek	Verdic
* 8	This subclause is applicable	Anboi	N N
4.2	Electrical tests	. 01	N N
4.2.1	This subclause is applicable		N N
4.2.5	This subclause is applicable  This subclause is applicable	49	N N
4.2.5.2	Only table 11 is applicable	Nos	N
4.2.5.2	Values for test A apply	0020	N
ren an	ofer Published	Pupo	N N
-otok	However, for capacitors in heating appliances the values for test B or C apply	63	IN
4.12	Damp heat, steady state		Ν
Anbo	This subclause is applicable	No.	Ν
Anbove	Only insulation resistance and voltage proof are checked	potek	N
4.13	Impulse voltage	Anbo	N
-ak	This subclause is applicable	0.0	N
4.14	Endurance		N
Anborek	Subclauses 4.14.1, 4.14.3, 4.14.4 and 4.14.7 are applicable	Nr.	N
4.14.7	Only insulation resistance and voltage proof are checked	otek	N
ek Anb	No visible damage	Aribo	N
4.17	Passive flammability test	An	N
hotek	This subclause is applicable		N
4.18	Active flammability test	16	N
VIII.	This subclause is applicable	otek	N
G	ANNEX G (NORMATIVE) SAFETY ISOLATING TRANSFORMERS		
połek	The following modifications to this standard are applicable for safety isolating transformers:	PU	
Zupotek	Marking and instructions	6	
7.1 <sub>M</sub> botok	Transformers for specific use marked with:	V	
Anbotel	-name, trademark or identification mark of the manufacturer or responsible vendor:	Pote Park	Р
Nup.	-model or type reference:	Up.	Р
17	Overload protection of transformers and associated circuits	b'up	
Anbotek	Fail-safe transformers comply with subclause 15.5 of IEC 61558-1	-	Р
22	Construction	- No.	

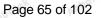


Pupole	IEC 60335-1	lek upoten aupo	
Clause	Requirement + Test	Result - Remark	Verdic
Vien	Tok Spotek Anbo. A. A.	aboten And	ek
itek An	Subclauses 19.1 and 19.1.2 of IEC 61558-2-6 are applicable	Anbotek Anbore And	Р
29	Clearances, creepage distances and solid insulation	Anbore An-	
29.1, 29.2, 29.3	The distances specified in items 2a, 2c and 3 in table 13 of IEC 61558-1 apply	Anbotek Anbotek	Р
	For insulated winding wires complying with subclause 19.12.3 of IEC 61558-1 there are no requirements for clearances or creepage distances	botek Anbotek Anbotek	Р
hotek	For windings providing reinforced insulation, the distance specified in item 2c of table 13 of IEC 61558-1 is not assessed	Anbotek Anbotek	Р
Anbotek Anbote Anbote	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	ek Anbotek Anbotek botek Anbotek Anbotek Anbotek Anbotek	Р
Н	ANNEX H (NORMATIVE) SWITCHES		
VII.	Switches comply with the following clauses of IEC 61	058-1, as modified below:	
Anbore	The tests of IEC 61058-1 carried out under the conditions occurring in the appliance	ek Anbotek Anbotek	N
ek Ant	Before being tested, switches are operated 20 times without load	Anbotek Anbotek Anbo	N
8	Marking and documentation	Anborok Anbo	N
Aupoles	Switches are not required to be marked	abotek Anbote	N
Anbotek	However, a switch that can be tested separately from the appliance marked with the manufacturer's name or trade mark and the type reference	botek Anbotek Anbotek	N
13	Mechanism	botek Anbotek Anbo	Ν
otek	The tests may be carried out on a separate sample	Ann otek Anbotek An	N
15	Insulation resistance and dielectric strength	And tok abotek	N
15.1	Not applicable	Anbo Anborek	N
15.2	Not applicable	K Aupon August	N
15.3	Applicable for full disconnection and micro-disconnection	otek Anbotek Ambote	N
17	Endurance	Anbo. Ant	N
Anborek	Compliance is checked on three separate appliances or switches	Anbotek Anbotek	N
Anbotek	For 17.2.4.4, the number of cycles declared according to 7.1.4 is 10 000, unless	k Anbotek Anbotes	N



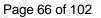


-botek	IEC 60335-1	h nek anbote.	Anto
Clause	Requirement + Test	Result - Remark	Verdict
ATTE	ak hotek Aupo, W., tek	aboten Anbo	ek.
yek Ar	otherwise specified in 24.1.3 of the relevant part 2 of IEC 60335	Anbotek Anbotek Anb	N
	Switches for operation under no load and which can be operated only by a tool, and	Anborek Anborek	N
Anbotok	switches operated by hand that are interlocked so that they cannot be operated under load,	lek Aupotek Aupotek	N
Aupo	are not subjected to the tests	botek Anbote And	N
ipotek An	However, switches without this interlock are subjected to the test of 17.2.4.4 for 100 cycles of operation	Anbotek Anbotek An	N
Anbotok	Subclauses 17.2.2 and 17.2.5.2 not applicable	nbotek Anbot	N
Anbotek Anbot	The ambient temperature during the test is that occurring in the appliance during the test of Clause 11 in IEC 60335-1	ek Anbotek Anbotek	N
tek An	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 Anbo	N
20	Clearances, creepage distances, solid insulation and assemblies	coatings of rigid printed board	N
Anbo.	Clause 20 is applicable to clearances across full disconnection and micro-disconnection	ok Anbotek Anbotek	N
ek An	It is also applicable to creepage distances for functional insulation, across full disconnection and micro-disconnection, as stated in Table 24	Anbotek Anbotek Anbot	N
l	ANNEX I (NORMATIVE) MOTORS HAVING BASIC INSULATION THAT IS II RATED VOLTAGE OF THE APPLIANCE	NADEQUATE FOR THE	
Anbore	The following modifications to this standard are appli insulation that is inadequate for the rated voltage of t		N
8	Protection against access to live parts	otek anbotek Anbo	N
8.1	Metal parts of the motor are considered to be bare live parts	Anbotek Anbotek An	N
1,1/b <sup>ore</sup>	Heating	Aupotek Vupe.	N
11.3 pore	The temperature rise of the body of the motor is determined instead of the temperature rise of the windings	otek Anbotek Anbotek	N
11.8	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	Anbotek Anbotek Anb	N
16	Leakage current and electric strength	VUPO.	N





-bois"	IEC 60335-1	b.,,
Clause	Requirement + Test Result - Remark	Verdid
Arra	Total Amborett Anbor An water Amborett Anborett	1/9)
16.3	Insulation between live parts of the motor and its other metal parts is not subjected to the test	N
19	Abnormal operation	N
19.1	The tests of 19.7 to 19.9 are not carried out	N
19.1.101	Appliance operated at rated voltage with each of the following fault conditions:	
tek Anbo	- short circuit of the terminals of the motor, including any capacitor incorporated in the motor circuit	N
botek	- short circuit of each diode of the rectifier	N
botek	- open circuit of the supply to the motor	N
Anbotok	- open circuit of any parallel resistor, the motor being in operation	N
ek Anbo	Only one fault simulated at a time, the tests carried out consecutively	N
22	Construction	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	N
Anbot	Compliance checked by the tests specified for double and reinforced insulation	N
J	ANNEX J (NORMATIVE) COATED PRINTED CIRCUIT BOARDS	
Anbotek	Testing of protective coatings of printed circuit boards carried out in accordance with IEC 60664-3 with the following modifications:	N
5.7 Anbore	Conditioning of the test specimens	Ν
Anbor	When production samples are used, three samples of the printed circuit board are tested	N
5.7.1	Cold	N
oto.	The test is carried out at -25 °C	N
5.7.3	Rapid change of temperature	N
Anbotek	Severity 1 is specified	N
5.9	Additional tests	N
7 × 1	This subclause is not applicable	N
K	ANNEX K (NORMATIVE) OVERVOLTAGE CATEGORIES	
Anbolek	The information on overvoltage categories is extracted from IEC 60664-1	Р





bojek	IEC 60335-1	k notek anboten	Anbo
Clause	Requirement + Test	Result - Remark	Verdict
stek Ar	Overvoltage category is a numeral defining a transient overvoltage condition	Aupotek Aupotek Aupote	P
upotek	Equipment of overvoltage category IV is for use at the origin of the installation	Anbotek Anbotek	N
Anbotek	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	obotek Anbotek Anbotek	N
upotek Viez Vu	Equipment of overvoltage category II is energy consuming equipment to be supplied from the fixed installation	Anbotek Anbotek A	Р
Anbotok Anbotok	If such equipment is subjected to special requirements with regard to reliability and availability, overvoltage category III applies	ek Anbotek Anbotek	N
tek Anto	Equipment of overvoltage category I is equipment for connection to circuits in which measures are taken to limit transient overvoltages to an appropriate low level	Potek Anbotek Anbo	N
L	ANNEX L (INFORMATIVE) GUIDANCE FOR THE MEASUREMENT OF CLEAR DISTANCES	RANCES AND CREEPAGE	
Anborr	Information for the determination of clearances and creepage distances	ootek Anbotek Anbotek	N
М	ANNEX M (NORMATIVE) POLLUTION DEGREE		
anbotek in	The information on pollution degrees is extracted from IEC 60664-1	Anbotek Anbotek	Р
anbotek	Pollution	ek abotek Anbore	
	The microenvironment determines the effect of pollution on the insulation, taking into account the macroenvironment	otek Anbotek Anbotes	Р
bolek	Means may be provided to reduce pollution at the insulation by effective enclosures or similar	Ambotek Ambotek Ani	Р
Anbote!	Minimum clearances specified where pollution may be present in the microenvironment	Anbotek Anbotek	Р
Ano-	Degrees of pollution in the microenvironment	an Anbo	
ek Anb	For evaluating creepage distances, the following deg microenvironment are established:	grees of pollution in the	
bojek l	- pollution degree 1: no pollution or only dry, non- conductive pollution occurs. The pollution has no influence	Anbotek Anbotek Ant	N





botek	IEC 60335-1	k potek anbore	Pur
Clause	Requirement + Test	Result - Remark	Verdic
ATTE	ak botek Anbo, An	aboten Ando	ek.
nbotek Ar	- pollution degree 2: only non-conductive pollution occurs, except that occasionally a temporary conductivity caused by condensation is to be expected	Anbotek Anbotek Anbotek	Р
	- pollution degree 3: conductive pollution occurs or dry non-conductive pollution occurs that becomes conductive due to condensation that is to be expected	tek Anbotek Anbotek	N
upotek An	- pollution degree 4: the pollution generates persistent conductivity caused by conductive dust or by rain or snow	Anbotek Anbotek An	N
N	ANNEX N (NORMATIVE) PROOF TRACKING TEST		
Anbol	The proof tracking test is carried out in accordance v following modifications:	vith IEC 60112 with the	N
7.k 6.m	Test apparatus	tek abotek Anbo	N
7.3	Test solutions	Anbo Ar	N
up.	Test solution A is used	Aupo, W. Polek	N
10	Determination of proof tracking index (PTI)	Anbors Ans	N
10.1	Procedure	tek Anbole And	N
Anbor	The proof voltage is 100V, 175V, 400V or 600V:	notek Anboten Anbu	N
ick An	The test is carried out on five specimens	notek Anbotek Anbo	N
abotek abotek	In case of doubt, additional test with proof voltage reduced by 25V, the number of drops increased to 100	Anbotek Anbotek An	N
10.2	Report	Am otek anbotek	N
Anbote	The report states if the PTI value was based on a test using 100 drops with a test voltage of (PTI-25) V	potek Anbotek Anbotek	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	Anbotek Anbotek	Р
P	ANNEX P (INFORMATIVE) GUIDANCE FOR THE APPLICATION OF THIS STA	ANDARD TO APPLIANCES	
potek An	Modifications applicable for class 0 and 01 appliance exceeding 150V, intended to be used in countries have marked with symbol IEC 60417-6332		N



, boish	Anbo	IEC 60335-	VUD.	w work	Anbore	Die
Clause	Requirement + Test	abotek	Anb R	Result - Remark	anbotek	Verdict
anbotek An	Modifications may also be appli exceeding 150V, intended to be are marked with symbol IEC 6 mains that excludes the protect	used in count 0417-6332, if	ries havi liable to	ng a tropical clima	ite and that	N
5.7	The ambient temperature for the and 13 is 40 +3/0 °C	e tests of claus	es 11	k Anborek	Anbotek	N
7.1 Anbot	The appliance marked with sym 6332	nbol IEC 6041	7- And	otek Anbotek	yk Aupor	N
7.12	The instructions state that the a supplied through a residual curr having a rated residual operatin exceeding 30 mA	ent device (RC		Anbotek Ant	otek Ar	N
Anbotek Anbote	The instructions state that the a considered to be suitable for us having a tropical climate, but mother countries	e in countries	d in	otek Anbotek	Anbotek Anbotek	N
upotek An	If symbol IEC 60417-6332 is is explained	used, its meai	ning	nbote <sup>k</sup> Anb	otek bi	N
11.8	The values of Table 3 are reduced	ed by 15 K	0/0	Vue Pue	inpolek	N
13.2	The leakage current for class I a exceeding 0,5 mA	appliances not	inpole,	Anbotek	Anbotek	N
15.3	The value of t is 37 °C	Anbor	by.	tek Aupoten	Aupo	N
16.2	The leakage current for class I a exceeding 0,5 mA (mA):	appliances not	r Pr	nbotek Anbote	atek Anbo	N
19.13	The leakage current test of 16.2 addition to the electric strength		olok A	Anbore. Anb	nbotek	N
Q	ANNEX Q (INFORMATIVE) SEQUENCE OF TESTS FOR T	HE EVALUAT	ION OF	ELECTRONIC CI	RCUITS	
Anbo	Description of tests for appliance	es incorporatin	g electro	onic circuits	Vun.	N
R	ANNEX R (NORMATIVE) SOFTWARE EVALUATION					
Anbotek Anbotek	Programmable electronic circuit incorporating measures to control conditions specified in table R.1 accordance with the requirement	rol the fault/erro or R.2 validate	or ed in	Anbotek An	Anbotek Anbotek	N
R.1 Anbote	Programmable electronic circuit	s using softwa	re	ek anbotek	Aupore	N
botek Anbr	Programmable electronic circuit incorporating measures to conti conditions specified in table R.1 so that the software does not in with the requirements of this sta	ol the fault/erro or R.2 constru pair compliance	or ucted	Anbotek Anbotek	tek Anbot	N
R.2	Requirements for the architectu	re otek	100.0	Van.	anbotek	N



botek	Vupo, VI.	IEC 60335-1	work anbore.	Ans
Clause	Requirement + Test	k społek Aup	Result - Remark	Verdic
otek Andotek	Programmable electronic circincorporating measures to conditions specified in table measures to control and avoidalts/errors in safety-related related segments of the soft	ontrol the fault/error R.1 or R.2 use oid software-related I data and safety-	Anbotek Anbotek Anbotek Anbotek Anbotek	N
R.2.1.1	Programmable electronic circontrol the fault/error conditionstructures:			N
<sup>upotek</sup>	- single channel with periodic monitoring	c self-test and	Anbotek Anbotek A	N
npolek	- dual channel (homogenous	s) with comparison	potek Anbores	N
Abotak	- dual channel (diverse) with	comparison	ok hotek anbotek	N
tek Anbott	Programmable electronic circontrol the fault/error conditionstructures:			N
rok	- single channel with function	nal test	Anbo. Ar abotek Ar	N
POK.	- single channel with periodic	c self-test	Aupon K Mar	N
Aupo,	- dual channel without comp	arison	Anbore And Otek	N
R.2.2	Measures to control faults/er	rors	tek Aupoles Aug	N
R.2.2.1	When redundant memory wi provided on two areas of the data in one area is stored in that in the other area	same component, the	Anbotek Anbotek Anbot	N
R.2.2.2	Programmable electronic cirrequiring software incorporate control the fault/error conditions. 2 and that use dual chann comparison, have additional means for any fault/errors no comparison	ting measures to ons specified in table el structures with fault/error detection	Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	N
R.2.2.3	For programmable electronic requiring software incorporate control the fault/error condition R.1 or R.2, means are provious and control of errors in transsafety-related data paths	ting measures to ons specified in table ded for the recognition	Anbotek Anbotek Anbotek Anbotek Anbotek	N
R.2.2.4	For programmable electronic requiring software incorporate control the fault/error condition R.1 or R.2, the programmab incorporate measures to additional safety-related segments and R.1 and R.2 as appropriate	ting measures to ons specified in table le electronic circuits dress the fault/errors in	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N



Notod-	Aupora Am	IEC 60335-1	M. notek Anboten	Anb
Clause	Requirement + Test		Result - Remark	Verdict
Ville	ok bolek Anbo.	br. Fek	abotel Anbo	rek-
R.2.2.5	For programmable electronic requiring software incorpora control the fault/error conditi R.1 or R.2, detection of a fau compliance with clause 19 is	ting measures to ons specified in table ult/error occur before	Anbotek Anbotek Anbotek Anbotek	N
R.2.2.6	The software is referenced to operating sequence and the functions		tek Anbotek Anbotek	N
R.2.2.7	Labels used for memory loca	ations are unique	hotek Anboten Anb	N
R.2.2.8	The software is protected fro safety-related segments and		Anbotek Anbotek A	N
R.2.2.9	Software and safety-related control is initialized and term compliance with clause 19 is	inates before	ek Anbotek Anbotek	N
R.3	Measures to avoid errors	And	upotek Aupor	N
R.3.1	General	stok Aupo	botek Anbote Ans	N
nbotek	For programmable electronic measures to control the fault following measures to avoid	/error conditions specifi		N
Anbotek Anbot	Software that incorporates n control the fault/error conditi R.2 is inherently acceptable control the fault/error conditi R.1	ons specified in table for software required to	otek Anbotek Anbotek	N
R.3.2	Specification	bolek Anbore	har arbotek An	N
R.3.2.1	Software safety requirement	S. wotok Anbotek	Software Id:	N
Anbotok	The specification of the software requirements includes the de	vare safety	ak Anbotek Anbotek	N
R.3.2.2	Software architecture	Vupor Vu	otek Anbotek Anbo	N
R.3.2.2.1	The specification of the softwincludes the aspects listed	vare architecture	Document ref. No:	N
	- techniques and measures faults/errors (refer to R.2.2);	to control software	Anbotek Anbotek	
	- interactions between hardy		Anb. sek spotek	
	- partitioning into modules as specified safety functions;	nd their allocation to the	ak Anborek Anborek	
	- hierarchy and call structure (control flow);	of the modules	hotek Anbotek Anbote	
	- interrupt handling;		Ant stek anbotek Ant	
	- data flow and restrictions o	48,	Anbo Ak Motek	
	- architecture and storage of		Anbore And	
	- time-based dependencies	of sequences and data	k hotek Anbo.	

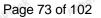


	IEC 60335-1		
Clause	Requirement + Test	Result - Remark	Verdict
Ville	ak hotek Anbor An	abover Ando	ek.
R.3.2.2.2	The architecture specification is validated against the specification of the software safety requirements by static analysis	Ambotek Ambotek Amb	N
R.3.2.3	Module design and coding	Anborek Anbore	N
R.3.2.3.1	Based on the architecture design, software is suitably refined into modules	lek Anbotek Anbotes	N
rek Anbo	Software module design and coding is implemented in a way that is traceable to the software architecture and requirements	Potek Vupotek Vupo	N
R.3.2.3.2	Software code is structured	Anbotek Anbo. A	N
R.3.2.3.3	Coded software is validated against the module specification by static analysis	Ambotek Ambotek	N
Anbois Anbois	The module specification is validated against the architecture specification by static analysis	on Anbotek Anbotek	N
R.3.3.3	Software validation	ntek anbotek Anbo	N
nbotek	The software is validated with reference to the requirements of the software safety requirements specification	Anbotek Anbotek Ar	N
wo tek	Compliance is checked by simulation of:	Ann otek Anbotek	N
View.	- input signals present during normal operation	ar Vupr	N
Arra	- anticipated occurrences	potek Anbe tek tool	N
ie. Vur	- undesired conditions requiring system action	abolek Anbor An	N

S	ANNEX S (NORMATIVE) BATTERY OPERATED APPLIANCES POWERED NON-RECHARGEABLE OR NOT RECHARGED IN		
lek Aut	The following modifications to this standard are applicable for battery-operated appliances where the batteries are either non-rechargeable (primary batteries), or	Anbotek Anbotek Anbote	N
Vupolek	rechargeable batteries (secondary batteries) that are not recharged in the appliance	Anbotek Anbotek	N
5.8.1	If the supply terminals for the connection of the battery have no indication of polarity, the more unfavourable polarity is applied	k Anbotek Anbotek	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	Anbotek Anbotek Anbote	N
5.S.102	Appliances are tested as motor-operated appliances.	Vuposek Vupose	N



bojek	IEC 60335-1	VUL
Clause	Requirement + Test Result - Remark	Verdid
7.1	Appliances marked with the battery voltage (V) and the polarity of the terminals, unless	N
Upogo.	the polarity is irrelevant	N
Aupola	Appliances also marked with:	Ν
Anbore	name, trade mark or identification mark of the manufacturer or responsible vendor:	N
-K	- model or type reference	N
ipotek PL	IP number according to degree of protection against ingress of water, other than IPX0	N
Notok	- type reference of battery or batteries	N
Anbotek	If relevant, the positive terminal is indicated by the symbol IEC 60417-5005 and the negative terminal by the symbol IEC 60417-5006	N
ek An	If appliances use more than one battery, they are marked to indicate correct polarity connection of the batteries	N
7.6	Additional symbols	N
7.12	The instructions contain the following, as applicable:	N
Anbo	- the types of batteries that may be used	N
Anbo.	- how to remove and insert the batteries	Ν
ek An	<ul> <li>non-rechargeable batteries are not to be recharged</li> </ul>	Ν
anbotek	rechargeable batteries are to be removed from the appliance before being charged	Ν
Anbotek	different types of batteries or new and used batteries are not to be mixed	N
ak Aupon	batteries are to be inserted with the correct polarity	N
otek.	exhausted batteries are to be removed from the appliance and safely disposed of	N
Anbotek	if the appliance is to be stored unused for a long period, the batteries are removed	N
Vugn.	- the supply terminals are not to be short-circuited	N
1.5	Appliances are supplied with the most unfavourable supply voltage between	N
otek Ant	<ul> <li>0,55 and 1,0 times the battery voltage, if the appliance can be used with non-rechargeable batteries</li> </ul>	N
Anbotek Anbotek	- 0,75 and 1,0 times battery voltage, if the appliance is designed for use with rechargeable batteries only	N





abotek	IEC 60335-1	work Aupore	Vien
Clause	Requirement + Test	Result - Remark	Verdic
Arra	work work Aupo, by	aboven Anbo	ak-
otek Ar	The values specified in Table S.101 for the internal resistance per cell of the battery is taken into account	Anbotek Anbotek An	N
19.1	The tests are carried out with the battery fully charged unless otherwise specified	Amborek Ambore	N
19.13	The battery does not rupture or ignite	lek Vupo, Vr. Polek	N
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	anbotek Anbotek Anbotek Anbotek	N
Anbotok	such a connection is unlikely to occur due to the construction of the appliance	Ambotek Anbotek	N
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	ek Anbotek Anbotek botek Anbotek Anbot	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	Anbotek Anbotek An	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	ek Anbotek Anbotek	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	Ambotek Ambotek Ambotek Ambotek	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	ak Anbotek Anbotek  Anbotek Anbotek	N
30.2.3.2	There is no battery in the area of the vertical cylinder used for the consequential needle flame test, unless	Anbotek Anbotek Anb	N
Anbotek	the battery is shielded by a barrier that meets the needle flame test of Annex E, or	Anbotek Anbotek	N
Anbore	that comprises material classified as V-0 or V-1 according to IEC 60695-11-10	otek Anbotek Anbotek	N
Т	ANNEX T (NORMATIVE) UV-C RADIATION EFFECT ON NON-METALLIC M	ATERIALS	
Anbotek Anbotek	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	Anbotek Anbotek	N



97000	IEC 60335-1	Anbore Anbore	Dur
Clause	Requirement + Test	Result - Remark	Verdict
Arra	Notek Anbor An	aboten Anbo	e/k
otek	Does not apply to glass, ceramic and similar materials	Anbotek Anbotek Anb	N
upo.	Tested as specified in ISO 4892-1 and ISO 4892-2,	with the following modifications:	N
Vupo,	Modifications to ISO 4892-1:	Anbore And	N
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	lek Anbotek Anbotek	N
otok p	Subclause 5.1.6.1 and Table 1 are not applicable	abolek Anbole And	N
5.2.4	The black-panel temperature shall be 63 °C +/- 3 °C	Anbotek Anbotes An	N
5.3.1	Humidification of the chamber air is specified in part 2 when necessary	ak Anborek Anborek	N
9	This clause is not applicable	ak hotek Anboten	N
No.	Modifications to ISO 4892-2:	hbore Am otek Anbots	N
7.1	At least three test specimens are tested	Anbore. And otek and	N
nboro	Ten samples of internal wiring is tested	Anbotek Anbo	N
7.2	The specimens are attached to the specimen holders such that they are not subject to any stress	Anbotek Anbotek	N
7.3	Apparatus prepared as specified	an Aug sek upotek	N
iek Vun	The test specimens and, if used, the irradiance- measuring instrument are exposed for 1 000 h	botek Anbotek Anbote	N
7.4	If used, a radiometer is mounted and calibrated such that it measures the irradiance at the exposed surface of the test specimen	Anbotek Anbotek Ant	N
7.5	Material properties and test methods for parts providing mechanical support or impact resistance as specified in Table T.1	Anbotek Anbotek	N
lek b	Material properties and test method for electrical insulation of internal wiring as specified in Table T.2	por Ambotek Anbote	N
8	This clause is not applicable	notek Anbotes Anb	Ν



. K . 6018	Anbo	IEC 60335-1	Andrek	anbore
Clause	Requirement + Test	nbo lek botek	Result - Remark	Verd

10.1	TABLE: Powe	r input deviation	ntek Anbot	r poke	ik Aupoter	MAIN	N
Input devia	ation of/at:	P rated (W)	P measured (W)	ΔΡ	Required $\triangle$ P	Rei	mark
hotel	Anbole.	Vun.	abotek Anbi	is but	otek onbo	le.	Vupo.
y has	tek Anborek	Vupo,	abotek A	Upoles	Was Clok	potek	Anb
Supplemen	tary information:	Aupo.	r Potek	Pupoley	Anth	abote	-

10.2	TABLE: Curre	nt deviation				P. P. K
Current de	eviation of/at:	I rated (A)	I measured (A)	ΔΙ	Required $\Delta$ I	Remark
Ann	42Vdc	2A	1.95A	-2.5%	+15%	botek Anbo
VUD.	iek spots	k Aupore	And	anbotek	Vupo, V	notek A
Supplemen	ntary information:	otek Anbot	Vupa ***	abotek	Aupola	Vien

11.8	TABLE: Heating test	ek vuposek	Anbote!	r Bugg	Lorek	Anborek		Anbore P
potek	Test voltage(V)		:	42	*1.06=44	.52Vdc	0/4	_
Ambient, t1 (°C)			:	Pose	24.6	k an	posek	_
rak bu	Ambient, t2 (°C)			Aupore	24.8	otek.	Anbo	_
Thermocou	iple locations:		Max. ter	nperature ured, Δ T (I		Max. temperature ι limit, Δ T (K)		
Supply cord	Anbore And	ak Anbotek	Aupo,	10.3	notek.	Anbotek	50	Aupo Fek
Internal wire	Anboles Anb	otek subo	tok Pupe	45.2	hotek	Anbolt	100	Vupo.
Surface of b	attery	rek	potek A	24.3	Ann	ina 4	60	Anbo
Enclosure	otek Anbotek	Vupo. rek	abolek	28.6	VUE	, ek	50	3K
Switch	work Anborek	Anbou	pr. hotek	15.7	VIID	401	60	ootek
Knob	Anti-	Aupor	Ar. wotek	11.3 Mod	0/4	'upo	50	abotek
Test wall (si	de)	Anboro Anboro	M MU	9.5	bolek	Aupo.	60	h. potek
Test floor	Anbo sek on	otek Anbol	V. Vinn	8.1	anborek	Anbor	60	bu.
Supplement	tary information:	aborek Ar	Pole. V	up.	nbotel	Pulp	0,0	k View
11.8	TABLE: Heating test	, resistance m	ethod	Aupo		18K	Anbor	N N
10/4	Test voltage (V)		:	Anbo.	ok br.	bolek	An	_
up-	Ambient, t1 (°C)		:	Aupor	A. A.	hotek		_
Anbo	Ambient, t2 (°C)			ik Au	00,0	Vi.	lk-	_
Temperatu	re rise of winding:	R1 (Ω)	R2 (Ω)	Δ T (K)	Max.	Δ T (K)		ulation class
	stek - supor	Price.	101	Vupo.	be.	4	~0/e	P.F.



ak be	-botek Anboten	Anbo	IEC 60335-1	Anboro K Ans	anbotek	Vup.
Clause	Requirement + Test	Anbo	, abotek	Result - Remark	nbo	Verdict

Supplementary information:

11.8	TABLE: Heating test	stek Anb	ole Vie	k Vupojek	Poor
A Pur	Test voltage (V)	:	42*0.94=3	39.48Vdc	_
K Ann	Ambient, t1 (°C)		: 24.5		
ogo bu			24	.6	_
Thermocouple locations:			nperature rise	Max. temperat	

Thermocouple locations:	Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)		
Supply cord	12.2	50		
Internal wire	48.2	100		
Surface of battery	23.2	60		
Enclosure	29.6	50		
Switch	16.0	60		
Knob	11.5	50		
Test wall (side)	10.2	60		
Test floor	8.8	60		

Supplementary information:

11.8	TABLE: Heating test, resistance method	Anboro	VII. VOLOK VI	potest N
Anbo.	Test voltage (V)	Anbole	Ans	_
Aupo	Ambient, t1 (°C):	ek Wupole.	Ann	_
Pupolo	Ambient. t2 (°C)	sek nbo	Jon William	_

Temperature rise of winding:	R1 (Ω)	R2 (Ω)	Δ T (K)	Max. Δ T (K)	Insulation class
ok potek Aupoter	Pupp.	nbotek	Anbore	Ans	anbotek
Supplementary information:	Anbo.	" motel	Anborer	Ano	bolek

13.2	TABLE: Leakage current	otek anbotek	Vupase.	P	
k Anbo	Heating appliances: 1.15 x rated input (W):	otek onbetel	Anbore	_	
Motor-operated and combined appliances: 1.06 x rated voltage (V):		1.06*42=44.52Vdc			
Leakage c	urrent between:	I (mA)	Max. allowe	ed I (mA)	
Live parts a	and enclosure	0.02	0.25	notek.	
Live parts a	and knob	0.01	0.25	Pu.	
Supplemen	ntary information:	ok hotek	Anbore	Vien	



Pres.	botek Anboten	Anbe	IEC 60335-1	Anbore And	anbotek Anb
Clause	Requirement + Test	Anbo	, abolek	Result - Remark	Verdict

13.3	TABLE: Dielectric strength	upor hotek	Anboten Anbo Pek
Test vol	tage applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)
Live parts	s and enclosure	3000	No
Live parts	s and knob	3000	No
Supplem	entary information:	ok hotek Al	ipotek Aupo

14	TABLE: Transient of	vervoltages	otek Anbot	Anu	ek abotek	Anbo
Clearance	between:	CI (mm)	Required CI (mm)	Rated impulse voltage (V)	Impulse test voltage (V)	Flashover (Yes/No)
by.	hotek Anbotek	Anbo	, bolek	Anbore	Yun Hok	upotek A
20,000	me otek Anbotek	Aupo.	wolek.	Anboros	Augo rek	nbotek
Suppleme	ntary information:	Pupor	K VIII	ik anbotok	Anbo	,botok

16.2	TABLE: Leakage current	tek abotek	Anboro	Р
k Anbo	Single phase appliances: 1.06 x rated voltage (V):	42*1.06=44	.52Vdc	_
otek Ar	Three phase appliances 1.06 x rated voltage divided by √3 (V):	Anbotek -nb	upotek An	_
Leakage c	urrent between:	I (mA)	Max. allowed I	(mA)
Live parts a	and enclosure	0.02	0.25	upole
Live part an	nd knob	0.01	0.25	Anbo
Supplemen	ntary information:	abotek Anbor	Pur Stek	200

16.3	TABLE: Dielectric strength	o. h. hotok	Ambores Am PR
Test vol	tage applied between:	Test potential applied (V)	Breakdown / flashover (Yes/No)
Live part	s and enclosure	3000	No
Live part	and knob	3000	No
Supplem	nentary information:	ok hotek Ant	ofer Anbo

17 hotek	17 TABLE: Overload protection		Anto	unbotek unbot N		
Thermocouple locations:			perature rise ed, Δ T (K)	Max. temperature rise limit, Δ T (K)		
. An'	ote, Aug stek	Photok Mulous Mus	work anbot	ek Vupo.	ok	



Supplementary information:

alk ale		Anti-	C 60335-1			
Clause	Requirement + Test	Anbo	bolek	Result - Re	mark	Verdict
00/0	And hotek	Anbo	br.	abolek	Anbo	ntek.
anborek	Anbore Ans	ek Anbotek	Anbo.	abolek.	Anboten	And rek
Suppleme	ntary information:					
b. note	k Anboten An	101	otek Anbo	lo buo	otek anbot	y Vupo,
17	TABLE: Overload	rotection, resis	stance method	bose, bu	tek al	potek Nanbe
, Ann	Test voltage (V)		:	Aupoten	VUPP - P	000
ole.	Ambient, t1 (°C)		:	Anbotek	Aupo.	_
Aupoten	Ambient, t2 (°C)		:	anbotek	Aupor	P
Temperat	ure of winding:	R1 (Ω)	R2 (Ω)	Δ T (K)	T (°C)	Max. T (°C)
Anbote	W VURD VOK	botek An	ote. And	rek -d	otek Vupor.	N
k and	otek Anbor	be.	Anbotek An	Por ha	abotek Ant	ole. Vue

19	Abnormal oper	ation conditio	ns				anbo P
Operationa	al characteristics		YES/NO	Operation	al condition	s	
Are there e appliance of	lectronic circuits to peration?	control the	-upotek	Anbotek	Anbotek	Anbotek	Anbe
Are there "d	off" or "stand-by" p	osition?	work	Aupore	Vien Vien	anbot	OK b
The uninter results in da	nded operation of angerous malfunc	the appliance tion?	ek Anbotek	Anbolt	otek Anb	otek An	potek
Sub- clause	Operating conditions description	Test results description	PEC description	EMP 19.11.4	Software type required	19.11.3 PEC	Final result
19.2	Anboro	Vun Utek	Anbotek	N.A	Notok.	Pupole	P Anbe
19.3	otek Aupole.	Ano	abolek	Anboi	VIII.	k Anbot	Р
19.4	hotek Anbolt	Aupa.	ak abolek	Anbore	Viun	rek ru	P
19.5	wotek an	otek Vupo.	, ak , no	ek Ant	ole, Vup	19.	Potek
19.6	And	anbotek An	2012 VIII	N.A	nbotek	inpo.	N botek
19.7	Anb	abotek	Aupole A	otek.	anbotek	Vupo,	N
19.8	Anbo	"polek	Anboren	Aug	nbotek	Aupore	N
19.9	Nek Anbo.	k Pr.	Anbotek	Vupo	- bole	Anbore	N
19.10	abotek Anbot	r Vun	ak Anbotek	Aupo	ok w	rek Ant	N
19.11.2	abotek Ant	Jose And	Nek mboi	ek Anb	P. V.	wolek	N
19.11.4.8	P. Potek	Anboren An	Let	potek	upole.	ur atek	Nabotek
19.10X	W. Otok	Anbotok	Vupo, br	notek	Anboren	Auga Fek	N Noot
Supplemen	tary information:	spotek	Aupor	Vien	abotek	Anbo	A.



*K *PO;	lek Aupolei	Anbo	IEC 60335-1	Pole K Wilek	anbotek	Anbr
Clause	Requirement + Test	Aupo	abotek	Result - Remark	nbo	Verdict

19	Abnormal oper	ation condition	ns				P
Operationa	l characteristics		YES/NO	Operational conditions			
	lectronic circuits ce operation?	s to control	NO	inpole k	Anbotek	Anborek	Anbo
Are there "	off" or "stand-by	r" position?	NO	Pr. Potek	Anboren	Anbo	ek .
	nded operation or esults in danger n?		NO	Anbol Anbol	totek Anbot	botek Anbo	botek otek
Sub- clause	Operating conditions description	Test results description	PEC description	EMP 19.11.4	Software type required	19.11.3 PEC	Final result
19.2	k Anbo.	Wotek.	Anboten	N.A	sporek	Aupolo	N And
19.3	otek Anbore	N Ann	anbotek	Vupo.	"k Pol	k Anbol	N
19.4	botek Anbot	e. Anv	ek abojel	Vupo,	br.	otek an	N
19.5	hotek Ar	DOJON VUDO	ok you	tok bu	Jose Nu	rek	Notek
19.6	An.	Anborok Ar	loo.	N.A	Aupole	Anto	N <sub>nbotel</sub>
19.7	Vun Jek	nbotek	Vupo, k	wo lek	Anboten	Anba	P
19.8	And	abolek	Anbore	Vun Viek	<b>Aupolek</b>	Aupo.	N
19.9	oten Anbo	*K "0040K	Anboles	Viun	k abore	k Aupor	N
19.10	upotek Aupo,	r his	ek Anboren	Anbo	10. 10.	otek Ani	N
19.11.2	anbotek An	Join Vin	otek anbo	lek Vul	0. Vr.	botek	Notes
19.11.4.8	potek	Anbore. An	10/4	botek	Aupola	work.	Nanbotek
19.10X	r wolek	Anbotek	VUD.	abotek	Anbore	Aug	N anbo
Supplement	ary information:	abotell	Aupo	Pr.	Mpolek	Ana	V-

19.7	TABLE: Abnormal o	peration, loc	ked rotor/movi	ng parts	anbotek	Ani	N
hotek	Test voltage (V)		:	And	k Anbotek		_
Vu.	Ambient, t1 (°C)		:	And	riek sabotel	4	_
Pur Pote	Ambient, t2 (°C)		:	ofen Anb	tek and	otek	_
Temperatu	re of winding:	R1 (Ω)	R2 (Ω)	Δ T (K)	T (°C)	Ma	x. T (°C)
No. Vui	otek Anbotek	Anbor	Vi. Polek	Anbotek	Vupo.	-/0	otek
Supplemen	tary information:	Anbore	Ann otek	Anbotek	Vupo,	ber.	Potek

19.9	TABLE: Abnormal operation, running overload	No.	bolok	Anbore	PLUN
anbore	Test voltage (V):	, ok	A. hotek	Anbotek	_
de ab	Ambient, t1 (°C):	upor	v votek	Anbore	_



o.K.	botek Anbotes	IEC 60335-1	Anbore Ans	anbotek Anb
Clause	Requirement + Test	Anbo Lek abotek	Result - Remark	Verdict

anbotek	Ambient, t2 (°C)		:	potek.	Anboten	- P
Temperatu	re of winding:	R1 (Ω)	R2 (Ω)	Δ T (K)	T (°C)	Max. T (°C)
hotek	Aupole, Vu	10/4	abotek Anbr	in the	otek anbot	k Vupo.
Supplement	tary information:	Anba. ak	holek b	nbore An	10.	otek Anb

19.13 TABLE: Abnormal operation, tel	mperature rises	Anbu Lek botelP			
Thermocouple locations:	Max. temperature rise measured, Δ T (K)	Max. temperature rise limit, Δ T (K)			
Supply cord	15.7	150			
Test floor	11.3	150			
Supplementary information:	Antotek Anbotek An	oo. W. Motek			

21.1	TABLE: Impac	t resistance	Anbores And	anbotek Arbot P
Impacts	per surface	Surface tested	Impact energy (Nm)	Comments
VUD	3 abotek	Enclosure	0.5	hoteP Anbote
Suppleme	entary information:	Anbores Anbo	ek Anbotek Anbot	ok hotek Anbe

Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity <sup>1)</sup>
AC/DC Charger	Jin Xin Yu Power (Shenzhen) Supply Co., Ltd.	XVE-4200200	Input: 100- 240V~, 50/60Hz, 2.0A Max Output: 42Vdc, 2.0A	IEC/EN 60335-1	CE Anbore
Motor	Taizhou Wanbo mechanical and Electrical Technology Co., Ltd.	8.5 inches	36Vdc, 350W	IEC/EN 60034-1	CE Mibalek
Internal wire	Interchangeable	Interchangeable	300VAC; 200°C; 24AWG	UL 758	UL MOD
PCB	Interchangeable	Interchangeable	V-0, 130°C	UL 94	UL
Battery	Shenzhen Elite Electronic Co., Ltd.	HY-ELITOP- S1003A-JD	36Vdc, 7500mAh, 270Wh	IEC 62133	СВ



N.	botek Anbotek	Vup.	IEC 60335-1	Anboro K Ann	anbotek	Pup.
Clause	Requirement + Test	Anbo	hotek	Result - Remark	odna	Verdict

28.1	TABLE: Thread	led part torque to	est	'upo's	Polek	Anbotek	Vilpo.	P.W
Threaded part identification:		Diameter of th (mm)	read	Column (I, II,		Applied torque (Nm)		
Enclosure	screw	2.97	Aupo	Yoda .	k Aupol	. Vun	0.5	Napo
Suppleme	entary information:	Anbotek	Vupo.	, ale	otek An	poter p	'up.	

29.1	TABLE: Clearances		otek Anbore	Yu.	k anbore	Puppor P
V. Pur	Overvoltage categor	у	.: II Anbu	tek anb	olek	
			Type of it	nsulation:		
Rated impulse voltage (V		(mm)		Reinforced (mm)	Functional (mm)	Verdict / Remark
330	0,2* / 0,5 / 0,8**	Vupo.	ak hotek	Anboyen	VUD.	potek
500	0,2* / 0,5 / 0,8**	Ant	of pro-	k anbote	Vupo.	ok botek
800	0,2* / 0,5 / 0,8**	1014	inbore And	rek anb	lek Vup.	- W motel
1 500	0,5 / 0,8** / 1,0***	notek	Aupoter Au	10V	bolek P	VPOLO. VIII
2 500	1,5 / 2,0***	X	X	Aupo, P	X	Anbores P Ans
4 000	3,0 / 3,5***	Vunn Vo	· abotek	Anbox X	Purplek	Anbot P A
6 000	5,5 / 6,0***	Anb	ek abotek	Aupola	VIII	anbotek
8 000	8,0 / 8,5***	Anb	total year	K Anbores	Ando	lek upotek
10 000	11,0 / 11,5***	OK I	Upor bu	otek Pupo	Non Aubo	tek abotek

## Supplementary information:

<sup>\*)</sup> 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

29.2	TABLE:	Creep	age dis	stances	, basic, su	ppleme	entary a	and reinfo	rced i	nsulat	ion	Aupo P
	g voltage V):				eepage dis (mm) ollution de							
		1		2			3			Type o		
			Ma	aterial g	roup	Ma	aterial ç	jroup				
			ı	II	IIIa/IIIb	ı	II	IIIa/IIIb*	B**	S**	R**	Verdict
<u></u>	50 <sub>knb</sub> o <sup>1</sup>	0,18	0,6	0,85	1,2	1,5	1,7	1,9	7		_	Vupote.
Anto S	50	0,18	0,6	0,85	1,2	1,5	1,7	1,9	_	No.	_	Anbol
Anb.	50	0,36	1,2	1,7	2,4	3,0	3,4	3,8	_	_	Lotel	6.0



k botek	Anbo		by.	IEC 6	0335-1	Vupo.	h.	1870		Vupo <sub>ten</sub>	b'u
Clause R	Requiremen	t + Test	Vupo	- ok	*bołek	Re	sult - Rem	nark	e/-	1,00	Verdict
Ole Ville	Yer	Vi Polek	Anbo	26	Work.	100	bolek	Vupe	- 14	-	Polek
125	0,2	28 0,7	75 1,05	1,5	1,9	2,1	2,4	PL	_	_	1970H
125	0,2	28 0,7	75 1,05	1,5	1,9	2,1	2,4	ė <u> </u>	Aupole	_	Anv
125	0,5	66 1,	5 2,1	3,0	3,8	4,2	4,8	_	_	101.	Anbo
250	0,5	6 1,2	25 1,8	2,5	3,2	3,6	4,0	X	_	_	PM
250	0,5	6 1,2	25 1,8	2,5	3,2	3,6	4,0	_	×X		P
250	hotel 1,1	2 2,	5 3,6	5,0	6,4	7,2	8,0		—	X	pote <sup>N</sup> P
400	notev 1,	0 2,	2,8	4,0	5,0	5,6	6,3	An			anbotek
400	Ame Lorell,	0 2,	2,8	4,0	5,0	5,6	6,3	_	Anbo		, abol
400	2,	0 4,	5,6	8,0	10,0	11,2	12,6	_	_	101	W
500	1,	3 2,	5 3,6	5,0	6,3	7,1	8,0	upotek.		_	A. Iv.
500	1,	3 2,	5 3,6	5,0	6,3	7,1	8,0		6		40.
500	2,	6 5,	7,2	10,0	12,6	14,2	16,0		_	p.nl	00,
>630 and ≤	800 1,	8 3,	2 4,5	6,3	8,0	9,0	10,0		_	_	Yupole
>630 and ≤	800 1,	8 3,	2 4,5	6,3	8,0	9,0	10,0	_	200		Aupor
>630 and ≤	800 3,	6 6,	4 9,0	12,6	16,0	18,0	20,0			ootek	An
>800 and ≤′	1000 2,	4 4,	5,6	8,0	10,0	11,0	12,5	upo-	_	_	(-
>800 and ≤′	1000 2,	4 4,	5,6	8,0	10,0	11,0	12,5	_	-V-	_	otelk
>800 and ≤′	1000 4,	8 8,	0 11,2	16,0	20,0	22,0	25,0	_	_	ber.	worek.
>1000 and ≤	1250 3,	2 5,	7,1	10,0	12,5	14,0	16,0		_	_	1700
>1000 and ≤	1250 3,	2 5,	7,1	10,0	12,5	14,0	16,0	_	Anbo	_	Purpo
>1000 and ≤	1250 6,	4 10	0 14,2	20,0	25,0	28,0	32,0	_	_	DOLO	Du
>1250 and ≤	1600 4,	2 6,	3 9,0	12,5	16,0	18,0	20,0	hotel	_		
>1250 and ≤	1600 4,	2 6,	3 9,0	12,5	16,0	18,0	20,0		rek		3/0/
>1250 and ≤	1600 8,	4 12	6 18,0	25,0	32,0	36,0	40,0		_		upotek
>1600 and ≤	2000 5,	6 8,	0 11,0	16,0	20,0	22,0	25,0			_	Anbote
>1600 and ≤	2000 5,	6 8,	0 11,0	16,0	20,0	22,0	25,0	_	Pitte		dna
>1600 and ≤	2000 11	,2 16	0 22,0	32,0	40,0	44,0	50,0	×	_	40	(
>2000 and ≤	2500 7,	5 10	0 14,0	20,0	25,0	28,0	32,0	Vupose.	_		No.
>2000 and ≤	2500 7,	5 10	0 14,0	20,0	25,0	28,0	32,0		10-		Yes
>2000 and ≤	2500 15	,0 20	0 28,0	40,0	50,0	56,0	64,0		_	9	upoto.
>2500 and ≤	No.	- 40	0,,,	25,0	32,0	36,0	40,0	ek-		_	Vupose
>2500 and ≤	10	-	400	25,0	32,0	36,0	40,0	_			Anb
>2500 and ≤		- O	10010	50,0	64,0	72,0	80,0		5/1/	motel	



					IEC 6	0335-1						
Clause R	equiren	nent +	Test	Aupo	//c	bojek	Re	sult - Rem	ark	ek.	200	Verdict
Pure Vien	You		olek	Vupo.	P	, kek	6.5	bolek	Vupo.	14	P-1	Yele
>3200 and ≤4	4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	Ari	—	_	, tek
>3200 and ≤4	4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	_	Anboter	_	Anbo
>3200 and ≤4	4000	25,0	32,0	44,0	64,0	80,0	90,0	100,0	_		ROLL	Vupo.
>4000 and ≤	5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	-010K			Ant
>4000 and ≤	5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	_	Jr.	_	N.
>4000 and ≤5	5000	32,0	40,0	56,0	80,0	100,0	112,0	126,0	_	_		potek
>5000 and ≤6	6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	VU,	_	_	abotek
>5000 and ≤6	6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	_	AUP	_	, above
>5000 and ≤6	6300	40,0	50,0	72,0	100,0	126,0	142,0	160,0	_	_	101	by.
>6300 and ≤8	8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	potek		_	/c bros
>6300 and ≤8	3000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	_	(c	_	40.
>6300 and ≤8	8000	50,0	64,0	90,0	126,0	160,0	180,0	200,0	_	_	PU	0,0
>8000 and ≤1	0000	32,0	40,0	56,0	80,0	100,0	110,0	125,0		_	_	Anbolo
>8000 and ≤1	0000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	_	100	_	Anbore
>8000 and ≤1	0000	64,0	80,0	112,0	160,0	200,0	220,0	250,0	_	_	ootek	AUD
>10000 and ≤′	12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	00	_	_	6
>10000 and ≤	12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	_	-V-	_	otek
>10000 and ≤′	12500	80,0	100,0	142,0	200,0	250,0	280,0	320,0	_		bu.	Yor

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## Supplementary information:

<sup>\*)</sup> Material group IIIb is allowed if the working voltage does not exceed 50 V \*\*) B = Basic insulation, S = Supplementary insulation, R = Reinforced insulation



N.	botek Anbotek	Vup.	IEC 60335-1	Anboro K Ann	anbotek	Pup.
Clause	Requirement + Test	Anbo	hotek	Result - Remark	odna	Verdict

Working voltage (V)			age dis	Cre	eepage di (mm) ollution de	stance	a\*	7/00.	Verdict /	Remark
		1		2			3			
			Ma	aterial g	roup	Ma	aterial g	roup		
			[	II	IIIa/IIIb	I	II	IIIa/IIIb*		
≤1	O botek	0,08	0,4	0,4	0,4	1,0	1,0	1,0	An-	Anbotek
50	) ""	0,16	0,56	0,8	1,1	1,4	1,6	1,8	Ans	anbol
12	5	0,25	0,71	1,0	1,4	1,8	2,0	2,2	Vuo.	101
25	0	0,42	1,0	1,4	2,0	2,5	2,8	3,2	poser Vup	sek to
40	Ooyer	0,75	1,6	2,2	3,2 📶	4,0	4,5	5,0	Anbotek A	upo.
50	Ombotek	1,0	2,0	2,8	4,0	5,0	5,6	6,3	Anbotek	Aupo,
>630 an	d ≤800	1,8	3,2	4,5	6,3	8,0	9,0	10,0	anbolek	Anboro
>800 and	d ≤1000	2,4	4,0	5,6	8,0	10,0	11,0	12,5	ek spotek	, Aupos
>1000 an	d ≤1250	3,2	5,0	7,1	10,0	12,5	14,0	16,0	* 9k * pc	rek An
>1250 an	d ≤1600	4,2	6,3	9,0	12,5	16,0	18,0	20,0	boy bu	botek
>1600 an	d ≤2000	5,6	8,0	11,0	16,0	20,0	22,0	25,0	Vupore V	hotek
>2000 an	d ≤2500	7,5	10,0	14,0	20,0	25,0	28,0	32,0	Anbo. ok	Pur
>2500 an	d ≤3200	10,0	12,5	18,0	25,0	32,0	36,0	40,0	Anboro	Puro mot
>3200 an	d ≤4000	12,5	16,0	22,0	32,0	40,0	45,0	50,0	yk Vupoter	h burn
>4000 an	d ≤5000	16,0	20,0	28,0	40,0	50,0	56,0	63,0	otek Anbo	ia. Vu
>5000 an	d ≤6300	20,0	25,0	36,0	50,0	63,0	71,0	80,0	abotek A	poter
>6300 an	d ≤8000	25,0	32,0	45,0	63,0	80,0	90,0	100,0	potek	Anboron
>8000 and	d ≤10000	32,0	40,0	56,0	80,0	100,0	110,0	125,0	hotek	Anbotek
-10000 an	d ≤12500	40,0	50,0	71,0	100,0	125,0	140,0	160,0	Var.	nbott

## Supplementary information:

<sup>\*)</sup> Material group IIIb is allowed if the working voltage does not exceed 50 V

30.1	TABLE: Ball Pr	essure Test of Therm	oplastics		P
Allowed	impression diamet	er (mm):	Anbores And	k anbotek	_
Object/ F	Part No./ Material	Manufacturer/ trademark	Test temperature (°C)	Impression diame	ter (mm)
Enclosur	e know	Anbotek Anbe	75	0.85	alt in





aft al	potek Anbot	And	IEC 60335-1	Aupolo	K Work	anbote	k Anb
Clause	Requirement	+ Test	botek	Res	ult - Remark	ek no	Verdict
00/6	Vien Vien	Polek Vupo,	by.		Doley Vupo.	- Tr	Nok
Knob		Pur. Tutok Pupo	Yek Vupo.	75	botek An	0.90	
Switch	Anbore	Nun otek	upotek Aupo	125	Pr. Polsk	0.72	Anbo
Suppleme	entary informatio	n: Amb	Anbotek A	upo, esk	Am	Anborek	Vupo

30.2	TAB	LE: Resi	stance to	heat and	I fire – Glov	w wire tests	wolek.	Anboten P
Object/	Manufacturer _	Glow wire test (GWT); (°C)						
Part No./ Material	1	EE0.	6	50	7	50	050	Verdict
	trademark	550	te	ti	te	ti	850	
Enclosure	Mupo-	X	- Anb		Vun Utek	-Thotak	Vupos	P
Knob Knob	AUpo.	Χ	ok	Vupo, e.	Vup.	- nbo'	ek - Au	P Pu
Switch	ekAupo,	- Pr.	notel.	Antoren	0	0	X	Aupore P
Object/ Part No./	Manufacturer /	Glow-wire flammability index (GWFI), °C			GW ignition temp. (GWIT), °C		Verdict	
Material	trademark	550	650	750	850	675	775	
anbotek	Vupo,	notek.	Anb	of Ch	Aupa	horek	Anbore	N
he test speci	men passed the	glow wire	test (GW	/T) with no	gnition [(t	e – ti) ≤ 2s] (	(Yes/No):	Yes
f no, then sur	rounding parts pa	assed the	needle-fl	ame test	of annex E	(Yes/No)		Mo No
	men passed the wire (Yes/No)?							No
anition of the	specified layer pl	laced unc	lerneath t	he test sp	ecimen (Ye	es/No)	, aboles	No

#### Supplementary information:

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

30.2/30.4	TABLE:	Needle- f	lame test (N	IFT)	botek	Anbot		ing	nbotN	1
Object/ Part Material	No./	Manufact trademar		applicati	tion of on of test (ta); (s)	specifie	on of ed layer s/No	Duration burning (t	_	dict
Aupor	r. bz.	Nek	anboien	Aupo	-/r	~otek	Aupole	Anti	100	

#### 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



Nok			IEC 6033	35_1X ATTACH	MENT		
Clause	Anbo	Requirement + Test	abotek	Anbore	Result - Remark	Aupor	Verdict

#### ATTACHMENT TO TEST REPORT

#### IEC 60335-1

#### **EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES**

Household and similar electrical appliances - Safety -

Part 1: GENERAL REQUIREMENTS

EN 60335-1:2012 + A11:2014 + A13:2017 + A1:2019 + A14:2019 +

EN 62233:2008

Attachment Form No. ..... EU\_GD\_IEC60335\_1X

Attachment Originator.....: Nemko AS

**Master Attachment** .....: 2019-09-24

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Delete "class 0" and "class 01"  Single-phase appliances to be connected to the supply mains: 230 V covered	Mek Nek Anbor
	Anbotek Anbo
Multi-phase appliances to be connected to the supply mains: 400 V covered	Anbotos N An
7.12 The instructions include the substance of the following:	Anbe
- this appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved	botek Anbotek Anbotek Anbotek Anbotek
- children shall not play with the appliance	Anbo
- cleaning and user maintenance shall not be made by children without supervision	atek Alborek
8.1.1 Also test probe 18 of EN 61032 is applied	Pote Pote
The appliance being in every possible position during the test, except that	Anbotek P
appliances normally used on the floor and having a mass exceeding 40 kg are not tilted	Anbotek N
The force on the probe in the straight position is increased to 10 N when probe 18 is used	otek Vipotek



Pir.	IEC 60335_1X ATTACHME	NT And A chalk	Aupol
Clause	Requirement + Test	Result - Remark	Verdict
anbotek Anb	When using test probe 18 the appliance is fully assembled as in normal use without any parts removed, and	Anbotek Anbotek Anb	otek P
Anbotek	parts intended to be removed for user maintenance are also not removed	Anbotek Anbotek	Pak
3.1.3	Instead of test probe B, test probe 18 and test probe 13, for appliances other than those of class II, test probe 41 of IEC 61032 is applied with a force not exceeding 1 N to live parts of visibly glowing heating elements, all poles of which can be disconnected by a single switching action	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N,both
3.2 Maharak	Compliance is checked by inspection and by applying the test probes of EN 61032 in accordance with the conditions specified in 8.1.1	Anbotek Anbotek	Anbotek Anbotek
Anbotes Stek Anbo	Test probe B and probe 18 of EN 61032 are applied to built-in appliances and fixed appliances only after installation	potek Anbotek Anbotel	N Ant
15.1.2	Appliances with an automatic cord reel tested with the cord in the most unfavourable position so that the reeling of the wet cord may affect electrical insulation during operation, the cord not being dried before reeling	Anbotek Anbotek Anbotek  Anbotek Anbotek  Anbotek	N nbotek Anbotek
20.2	For appliances having dangerous moving parts, due to their working function, e.g. the needle of a sewing machine, tools of kitchen machines or the blade of an electrical knife, full protection is not possible for performing their intended use	otek Anbotek Anbotek	P Ant
	When using a test probe similar to test probe B of EN 61032, having a circular stop face and applied with a force of 5N, the accessories and detachable covers are removed	Anbotek Anbotek A	Anbotek
tek Anbo	When using test probe 18 it is applied with a force of 2,5N on the appliance fully assembled	otek Anbore Anborek	Panb
22.12	Other parts intended to be detached during use, maintenance or cleaning (e.g. batteries, battery covers, lids, attachments, steam nozzles) are not considered as parts providing a similar function as handles, knobs, grips, levers	Anbotek Anbotek Anbotek Anbo	Anbotek Anbotek
22.17	The requirement is not applicable to built-in appliances	Hek Pupotek Vupotek	N
24.1	Components comply with the safety requirements specified in the relevant EN standards as far as they reasonably apply	nbotek Anbotek Anbot	ok P
Anbotek	Motors are not required to comply with EN 60034- 1, but tested as part of the appliance according to this standard	Anbotek Anbotek	Nu Anboi



An-	IEC 60335_1X ATTACHME	NT And worker	anbo
Clause	Requirement + Test	Result - Remark	Verdict
bolek Anbi	Relays are tested as part of the appliance according to this standard	Anbotek Anbotek Anb	otek N
Anborok	Relays may be alternatively tested to EN 60730-1 and the additional requirements in EN 60335-1	Aupotek Vingolek	unbot N
Anbotek Anbotek	The requirements of Clause 29 of this standard apply between live parts of components and accessible parts of the appliance	ek Anbotek Anbotek	AmP Ambol
Anbotek Anbo	Components may comply with the requirements for clearances and creepage distances for functional insulation as specified in the relevant component standard	Anbotek Anbotek Anbotek Anbotek	P
Anbotek Anbotek	The requirements of 30.2 of this standard apply to parts of non-metallic material in components including parts of non-metallic material supporting current-carrying connections inside components	otek Anbotek Anbotek	Ant Niek
Anbotek Anbo	Components that have not been tested and shown to comply with the EN standard for the relevant component are tested according to the requirements of 30.2 of this standard	Anbotek Anbotek Anbotek	N A
Anbotek Anbotek	Components that have been tested and shown to c requirements in the EN standard for the relevant co provided that:		Nek Anbolek
k Aupor	- the severity specified in the component standard is not less than the severity specified in 30.2, and	otek Anboten Anbotel	N
	- the test report for the component states the values of $t_{\rm e}$ and $t_{\rm i}$ acc. to EN 60695-2-11	Anbotek Anbotek Anb	io <sub>k</sub> N
Anbotek	If the above two conditions are not satisfied, the component is tested as part of the appliance	Anbotek Anbotek	N N
	Power electronic converter circuits are not required to comply with EN 62477-1, but tested as part of the appliance according to this standard	Anbotek Anbotek	Anbore Anbore
	Unless components have been tested and found to comply with the relevant EN standard for the number of cycles specified, they are tested in accordance with 24.1.1 to 24.1.9	inbotek Anbotek Anbotek	N
Anbotek	For components mentioned in 24.1.1 to 24.1.9, no additional tests specified in the relevant EN standard for the component are necessary other	Anbotek Anbotek A	N
Anborek	than those specified in 24.1.1 to 24.1.9  Components that have not been tested and found to comply with the relevant EN standard, and	yek Vupojek Vupojek	N N
Hely Aupon	components that are not marked or not used in accordance with their marking,	Npotek Anbores Anso	N N
	are tested in accordance with the conditions occurring in the appliance, the number of samples being that required by the relevant standard	Anbotek Anbotek Ar	ore N



Viu.	IEC 60335_1X ATTACHME	NT ME	Anbol
Clause	Requirement + Test	Result - Remark	Verdict
otek Anbotek Anbotek	Lamp-holders and starter-holders that have not been tested and found to comply with the relevant EN standard are tested as a part of the appliance and additionally comply with the gauging and interchangeability requirements of the relevant EN standard under the conditions occurring in the appliance	Anbotek Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	otek N Inbotek Anbotek
otek Anbotek	Where the relevant EN standard specifies these gauging and interchangeability requirements at elevated temperatures, the temperatures measured during the tests of Clause 11 are used	otek Anbotek Anbote Anbotek Anbotek	N An
Anbotek Anbotek Anbotek	There are no additional tests specified for nationally standardized plugs such as those detailed in IEC/TR 60083 or connectors complying with the standard sheets of EN 60320-1 and EN 60309, unless they are specifically mentioned in the text of this standard	Anbotek Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	mbotek Anbotek
otek Anbo	Plugs and socket-outlets and other connecting devices of interconnection cords are not interchangeable with plugs and socket-outlets listed in IEC/TR 60083 or IEC 60906-1, or	Ambotek Ambotek Ambotek Ambote	nbotek
Anboro	with connectors and appliance inlets complying with the standard sheets of EN 60320-1, if	k hotek Anbotek	AupNek
k. Anbotek	direct supply to these parts from the supply mains gives rise to a hazard	otek Anbotek Anbotek	N
stek Anbo	For plugs used in CENELEC countries Annex ZH applies	inbotek Anbotek Anbo	ROM N
24.1.7	When the remote operation of the appliance is via a telecommunication network, the relevant standard for the telecommunication interface circuitry in the appliance is EN 41003	Anbotek Anbotek A	anbotek
Anbotek Anbo	Compliance with Clause 8 of this standard is not impaired by connecting the appliance to a device covered by EN 41003	otek Anbotek Anbotek	N Anb
24.Z1	Type S2 and S3 capacitors according to EN 60252-1 are not required to undergo the testing as required by 30.2.2 and 30.2.3.1	Anbotek Anbotek Anbo	botek
25.1	Plugs and pins for insertion into socket outlets follow the relevant standards sheets in Annex ZH	Anbotek Anbotek	Anb N
25.7 March	Rubber sheathed cords (60245 IEC 53) are not suitable for appliances intended to be used outdoors, or	stek Anbotek Anbotek	N
ipotek An	when they are liable to be exposed to significant amount of ultraviolet radiation	Ambotek Ambotek Ambo	ootekN
25.25	Instead of IEC/TR 60083, dimensions of the pins and engagement face of plugs of appliances that are inserted into socket-outlets are in accordance with the dimensions of the relevant plug standard	Anbotek Anbotek	Anbotel



h	IEC 60335_1X ATTACHME	IN I AND TOTAL	Aupo
Clause	Requirement + Test	Result - Remark	Verdict
otek Ant	Common plugs and socket-outlets types in CENELEC countries as shown in Annex ZH	Anbotek Anbotek Anbo	N Verter
26.11	Conductors connected by soldering are not considered to be positioned or fixed so that reliance is not placed upon the soldering alone to maintain them in position,	Anbotek Anbotek	Anbotek
k Anbote	unless they are held in place near the terminals independently of the solder	botek Anbotek Anbotek	N.bo
29.3.Z1	Appliance constructed so that if there is a possibility of damaging the insulation during installation, the insulation withstands the scratch and penetration test of 21.2	Anbotek Anbotek An	inbotek
32 Maharak	Compliance regarding electromagnetic fields is checked according to EN 62233	ak Anbotek Anbotek	Anipiro
Annex I, 19.I.101	The appliance is supplied at rated voltage and operated under normal operation with each of the fault conditions specified	botek Anbotek Anbot	P AT
"upotek b	The duration of any of the tests is as specified in 19.7	Anbotek Anbotek An	o nboten
	notek Anbotek Anbo	Anboro Ann otek	Anborek
ZA Anbo's	ANNEX ZA (NORMATIVE) SPECIAL NATIONAL CONDITIONS (EN)	ek Anbotek Anbotek	Anbot
-ye ev	stek anbotek Antoniak botek An	Poles View Public	Bu Bu
Die. Dur	Denmark, Sweden, Norway and Finland	Anborek Anbo	otek -
7.12.8	The maximum inlet water pressure is at least 1,0 MPa	Anbotek Anbotek	Anbote N
hotek	Anbote Anbotek Anbotek	Am otek ambotek	Vupo.
bu. Otol	Norway	Aug. Tek apolek	Propos
600	The test is also applicable to applicable intended	otek Anborr All	N an
19.5	The test is also applicable to appliances intended to be permanently connected to fixed wiring	otek anboten Anbo	- Je
19.5		Ambotek Ambotek Ambo	2010/k
19.5		Anbotek Anbotek Anbo	Pupotak Posek
19.5 22.2	to be permanently connected to fixed wiring	Anbotek Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	AntoN Anbot
tek Anbo	Norway  The second paragraph of this subclause, dealing with single-phase, permanently connected class I appliances having heating elements, is not	Anbotek	Mipolok
tek Anbo	Norway  The second paragraph of this subclause, dealing with single-phase, permanently connected class I appliances having heating elements, is not	Ambotek Ambotek Ambotek  Ambotek Ambotek  Ambotek Ambotek  Ambotek Ambotek  Ambotek Ambotek  Ambotek Ambotek  Ambotek Ambotek	Mipolok



w water	IEC 60335_1X ATTACHME	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	VUp.
Clause	Requirement + Test	Result - Remark	Verdict
otek Aup	Ireland and United Kingdom	shotek Anbore And	- 401
25.8	In the table, the line >10 A and ≤16 A is replaced w	ith: Motek Anboten Ant	N
P. Polek	> 10 and ≤ 13 1,25 (1,0) <sup>b</sup>	Ans anbotek	<sup>upo</sup> , N
All	> 13 and ≤ 16 1,5 (1,0) <sup>b</sup>	And stek anbotek	MON
Ann	Anbotek Anbot At hotek Anbot	an Anbo sek shotek	Anbo
ZB	ANNEX ZB (INFORMATIVE) A-DEVIATIONS	botek Anbotek Anbote	b
Nek a	potek Anborek Anborek	Anba sek abotek Anb	0/0.
Ann	Ireland	Aupo. Wolek	nbore
25.1 and 25.25	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs complying with I.S. 401:1997, or equivalent, to be fitted to domestic appliances	ok Anbotek Anbotek  Anbotek Anbotek  Anbotek Anbotek	Anbo
	botek Anbotek Anbo	Anbore And	tok
Aupo, ok W	United Kingdom	Anbore And	nbotek
25.1 and 25.25	These regulations apply to all plugs for domestic use at a voltage of not less than 200 V and in general allow only plugs to BS 1363 to be fitted to domestic appliances.	Anbotek Anbotek Anbotek Anbotek	Anto Anto
	It also allows plugs to BS 4573 and EN 50075 to be fitted to shavers and toothbrushes	Inbotek Anbotek Anbotek	N A
rupoter Ar	tek Anbote Anbote And	anbotek Anbor An	worek.
ZC Anbotek	ANNEX ZC (NORMATIVE) NORMATIVE REFERENCES TO INTERNATIONA CORRESPONDING EUROPEAN PUBLICATIONS		Anbotek Anbotek
Anbotek Anbot	A list of documents referred to in the text of this standard in such a way that some or all of their content constitutes requirements of this document	otek Anbotek Anbotek	P
work An	Poles Wung	un otek Anbotek Anbo	
ZD Anbotek	ANNEX ZD (INFORMATIVE) IEC and CENELEC CODE DESIGNATIONS FOR	FLEXIBLE CORDS	potek
Anbores	List of IEC and CENELEC code designations for flexible cords	Aupotek Aupotek	Pot
rak hoj	ok Anbote Anu tek abotek Ant	an Andrek Anbotek	pri
ZE nbotek Ant	ANNEX ZE (INFORMATIVE) SPECIFIC ADDITIONAL REQUIREMENTS FOR A INTENDED FOR COMMERCIAL USE	PPLIANCES AND MACHINES	ootek ek
7.1 Anbotek	Business name and full address of the manufacturer and, where applicable, his authorized representative:	Anbotek Anbotek	Anb N



Aup	IEC 60335_1X ATTACHME	NT MODELL	anbol
Clause	Requirement + Test	Result - Remark	Verdict
otek Anb	Model or type reference	botek Anbotek Anbo	N N
bolek	Serial number, if any	And Anbotek Anb	N
Pu. Polek	Production year	And sek anbotek	N Court
VIII.	Designation of the appliance:	Anb. Lek abotek	MUN
7.12	Instructions provided with the appliance so that the appliance can be used safely	otek Anbotek Anbotek	Nabo
orek anb	The instructions contain at least the following inform	nation:	- b2
Anbotek A	- the business name and full address of the manufacturer and, where applicable, his authorized representative	Anbotek Anbotek Anb	N Inbotek
k Anbotek	- model or type reference of the appliance as marked on the appliance itself, except for the serial number	k Anbotek Anbotek	Anto
otek Anbr	- the designation of the appliance together with its explanation in case it is given by a combination of letters and/or numbers	Anbotek Anbotek Anbote	N AM
Anbotek	- the general description of the appliance, when needed due to the complexity of the appliance	Ambotek Ambotek	nborek
Anbotek Anbotek	- specific precautions required during installation, operation, adjusting, user maintenance, cleaning, repairing or moving	k Anbotek Anbotek	An N Anbor
upotek Aupo	- when needed drawings, diagrams, descriptions and explanations necessary for the safe use and user maintenance of the appliance	Anbotek Anbotek Anbo	tek N
Anbotek	- the possible reasonably foreseeable misuse and, whenever relevant, a warning against the effects it may have on the safe use of the appliance	Anbotek Anbotek	Anbotek
anbotek Anbo	The words "Original instructions" appear on the language version(s) verified by the manufacturer or by the authorized representative	otek Anbotek Anbotek	N Ant
Anbotek Anbotek	When a translation of the original instructions has been provided by a person introducing the appliance on the market; the meaning of the sentence "Translation of the original instructions" appear in the relevant instructions delivered with the appliance	Anbotek Anbotek Anbotek Anbotek Anbotek	botek Anbotek Anbotek
nbotek Anbot	The instructions for maintenance/service to be done by specialized personnel, mandated by the manufacturer or the authorized representative may be supplied in only one Community language which the specialized personnel understand	Anbotek Anbotek Anbotek Anbotek Anbotek	N <sub>A</sub> nb ek ootek



Pr.	IEC 60335_1X ATTACHME	NT Am	anb
Clause	Requirement + Test	Result - Remark	Verdict
otek Anbrak Anbotek A	The instructions indicate the type and frequency of inspections and maintenance required for safe operation including the preventive maintenance measures	Anbotek Anbotek Anb	otek N
7.12.ZE1	If needed for specific appliances, the following infor	mation to be given:	Vupole.
Anbotek Anbotek Anbotek	- on use, transportation, assembly, dismantling when out of service, testing or foreseeable breakdowns, if these operations have consequences on stability of the appliance in order to avoid overturning, falling or uncontrolled movements of the appliance or of its component parts	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N
k Anbotek	- on how to maintain adequate mechanical stability when in use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance	anbotek Anbotek Anbotek	An'N'
otek Anbo	- on the protective measures to be taken by the user, including, where appropriate, the personal protective equipment to be provided	Anbotek Anbotek Anb	hek N
Anbotek Anbotek	- on the operating method to be followed in the event of accident or breakdown; if a blockage is likely to occur the operating method to safely unblock the appliance	k Anbotek Anbotek Anbotek	Anbolek Anbo
otek Anbo	- on the specifications on the spare parts to be used, when these affect the health and safety of the operator	Anbotek Anbotek Anbotek	N N
	- on airborne noise emissions, determined and decl relevant Part 2, which includes:	ared in accordance with the	ipoteľN Natok
Anbotek	- the A-weighted emission sound pressure level at workstations, where this exceeds 70 dB(A);	ntek Ambotek Ambotek	Anbo
tek Anbot	- where this level does not exceed 70 dB(A), this fact is indicated	Inbotek Anbotek Anbote	N <sub>b</sub>
Anbotek Anbotek	- the peak C-weighted instantaneous sound pressure value at workstations, where this exceeds 63 Pa (130 dB in relation to 20 μPa)	Anbotek Anbotek Anbotek	pote N Anbotek
tek Anbotek	- the A-weighted sound power level emitted by the machinery, where the A-weighted emission sound pressure level at workstations exceeds 80 dB(A):  :	Thotak Anbotak Anbotak	₽Ñ Af
7.12.ZE2	The instructions include a warning to disconnect the appliance from its power source during service and when replacing parts	Anbotek Anbotek An	oote N



Dir.	IEC 60335_1X ATTACHME	NT MONTH TO THE MENT	Anbo'
Clause	Requirement + Test	Result - Remark	Verdict
Anbotek Anbotek	If the removal of the plug is foreseen, it is clearly indicated that the removal of the plug is such that an operator can check from any of the points to which he has access that the plug remains removed	Anbotek Anbotek Anbotek Anbotek	otek N
Anbotel Anbotel	If this is not possible, due to the construction of the appliance or its installation, a disconnection with a locking system in the isolated position is provided	ok Anbotek Anbotek	N Anbot
19.11.4.8	The appliance continues to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage fluctuation occurred, or	Anbotek Anbotek Anb	otek N
And	a manual operation is required to restart it	Aupo sek upotek	AUN See
20.1	Appliances and their components and fittings have adequate mechanical stability during transportation, assembly, dismantling and any other action involving the appliance	otek Anbotek Anbotek	Naoti Ani
20.2	Dangerous moving transmission parts safeguarded either by design or guards	Anbotek Anbotek Anb	N
Anbo,	When guards are used, they are fixed guards, interlocking movable guards or protective devices	Anbotek Anbotek	Amb Nek
k Anbotek	Moving parts directly involved in the function of the made completely inaccessible fitted with:	appliance which cannot be	N
otek Anbo	- fixed guards or interlocking movable guards preventing access to those sections of the parts that are not used in the work, and	Anbotek Anbotek Anbr	tek N
Anbotek Anbotek	- adjustable guards restricting access to those sections of the moving parts where access is necessary	Anbotek Anbotek	New
Anboro.	Interlocking movable guards used where frequent access is required	otek Ambotek Ambotek	N
21.1	Appliances and their components and fittings have adequate mechanical strength and is constructed to withstand such rough handling that may be expected in normal use, during transportation, assembly, dismantling, scrapping and any other action involving the appliance	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	lootek Anbotek
22.ZE.1	For appliances provided with a seat, the seat gives adequate stability	tek Anbotek Anbotek	N
upotek An	The distance between the seat and the control devices capable of being adapted to the operator	nbotek Anbotek Anbot	e <sub>N</sub> N P
22.ZE.2	For appliances provided with separate devices for the start and the stop functions, the stop function is unambiguously identifiable and does always override the start function	Anbotek Anbotek Ar	N Anbotek



Ann	IEC 60335_1X ATTACHME	NT AND A TOTAL	Anboy
Clause	Requirement + Test	Result - Remark	Verdict
Anbotek Anbotek	For appliances provided with one device performing the start and the stop function, the stop function is unambiguously identifiable and does always override the start function	Anbotek Anbotek Anb	otek N
22.ZE.3	Appliances designed in such a way that incorrect mounting is avoided, if this can lead to an unsafe situation	ek Anbotek Anbotek	An N
otek Anb	If this is not possible, information on the correct mounting is given directly on the part and/or the enclosure	Anbotek Anbotek Anbote	N And
22.ZE.4	Where the weight, size or shape prevents appliances from being moved manually, they are fitted with attachments for lifting gear, or	Anbotek Anbotek	inbot N Anbotak
ik Anborel	so designed that they can be fitted with such attachments, or	Anbotek Anbotek	Noon
otek Anb	be shaped in such a way that standard lifting gear can easily be used	Anbotek Anbotek Anbote	N AN
Anbores A	Appliances to be moved manually are constructed or equipped so that they can be moved easily and safely	Anbotek Anbotek	nboteN nbotek
22.ZE.5	The fixing systems of fixed guards which prevent access to dangerous moving transmission parts only removable with the use of tools	Anbotek Anbotek	N <sub>Anbot</sub>
unbotek And	If such guards have to be removed by the user for routine cleaning or maintenance their fixing systems remain attached to the fixed guards or to the machine after removal	Anbotek Anbotek Anbo	lek N
Anbotek	Where possible, guards are incapable of remaining in place without their fixings	Anbotek Anbotek	Anb N
anbote.	This does not apply if, after removal of the screws, or if the component is incorrectly repositioned, the appliance becomes inoperative	otek Anbotek Anbotek	N
abotek A	Movable guards are interlocked	hotek Anboten Anb	N
Anbotek Anbotek	The interlocking devices prevent the start of hazardous appliance functions until the guards are fixed in their position, and give a stop command whenever they are no longer closed	Anbotek Anbotek Arbotek	N Anborek Anbore
stek Anbo	Where it is possible for an operator to reach the dar hazardous appliance functions has ceased, movabl guard locking device in addition to an interlocking d	e guards associated with a	ok Anb
upotek A	- prevents the start of hazardous appliance functions until the guard is closed and locked, and	Anborek Anborek An	ootel N
100	100		



Ans	IEC 60335_1X ATTACHME	NT Andrew	anbol
Clause	Requirement + Test	Result - Remark	Verdict
otek Anbr	- keeps the guard closed and locked until the risk of injury from the hazardous appliance functions has ceased	Anbotek Anbotek Anb	otek N
Anbotek	Interlocking movable guards remain attached to the appliance when open, and	Anbotek Anbotek	N <sub>ek</sub>
Anbotek Anbotek	they are designed and constructed in such a way that they can be adjusted only by means of an intentional action	potek Pupotek Vipotek	N <sub>1</sub> bol
22.ZE.6	Interlocking movable guards designed in such a way that the absence or failure of one of their components prevents starting or stops the hazardous appliance functions	Anbotek Anbotek Anb	nbotek N
Anbotek Anbotek	The guard is opened to the extent needed to cause the interlocking to operate and is then closed, the number of operations being defined in the specific Part 2	otek Anbotek Anbotek	Ant N Anboh
nbotek Ar	After this test any defect that may be expected in normal use is applied to the interlock system, including interruption of the supply, only one defect being simulated at a time	Anbotek Anbotek Anb	nbotek
Anbotek	After these tests the interlock system is fit for further use	k Anbotek Anbotek	Anbote Anbote
22.ZE.7	Adjustable guards restricting access to areas of the for the work are:	moving parts strictly necessary	Anh
inbotek Ar	- adjustable manually or automatically, depending on the type of work involved, and	Anbotek Anbotek Anbo	N
Aupolek	- readily adjustable without the use of tools	upotek Anbota k	N
22.ZE.8	In case of interruption, re-establishment after an interruption or fluctuation in whatever manner of the power supply, the appliance does not restart	Anbotek Anbotek	Ambore Anbore
nbotek Anbotek	However, automatic restarting of the operation is allowed if the appliance may continue to operate, without causing any hazard to the user, from the same point in its operating cycle at which the voltage interruption or fluctuation occurred	Anbotek Anbotek Anbo Anbotek Anbotek Anbo	lootek Lootek
22.ZE.9	Appliances fitted with means to isolate them from all energy sources	Anbotek Anbotek	Amborel Anborel
Aupo.	Such isolators are clearly identified, and	yek Aupon Mun Potek	Nanb
rotek Pupor	they are capable of being locked if reconnection endanger persons	Opotek Anbotek Anbot	N N
Anbotek Anbotek	After the energy source is disconnected, it is possible to dissipate any energy remaining or stored in the circuits of the appliance without risk to persons	Anbotek Anbotek An	oofel N Anbotek



ANNEX ZF (INFORMATIVE) CRITERIA APPLIED FOR THE ALLOCATION OF PRODUCTS COVERED BY STANDARDS IN THE BC 60335 SERIES UNDER LVD OR MD  List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive)		IEC 60335_1X ATTACHME	ENI ATT	Vup,
CRITERIA APPLIED FOR THE ALLOCATION OF PRODUCTS COVERED BY STANDARDS IN THE EN 60335 SERIES UNDER LVD OR MD  List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive)	Clause	Requirement + Test	Result - Remark	Verdict
CRITERIA APPLIED FOR THE ALLOCATION OF PRODUCTS COVERED BY STANDARDS IN THE EN 60335 SERIES UNDER LVD OR MD  List of standards under CENELEC/TC61 with the allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive)	olek Wup.	An Annotek Anbotek Anbo.	botek Anboten Anb	101
allocation under the LVD (Low Voltage Directive) or the MD (Machinery Directive)	ZF <sub>umbotek</sub>	CRITERIA APPLIED FOR THE ALLOCATION OF		inpolek otek
The following modifications to this standard apply to appliances having UV emitters  This annex is not applicable to appliances covered by the scopes of IEC 60335-2-27, IEC 60335-2-59 or IEC 60335-2-109  The instructions for appliances incorporating UVC emitters include the substance of the following: WARNING—This appliance contains a UV emitter. Do not stare at the light source  For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant  THE ANNEX ZH (INFORMATIVE)  Common plug and socket-outlet types in CENELEC countries  In general, supply cords of single-phase appliances having a rated current not exceeding 16 A are fitted with a plug complying with the following standard sheets:  - for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4: - for class II appliances, standard sheet EU5, EU6 or EU7	Anbotek	allocation under the LVD (Low Voltage Directive)	tek Anbotek Anbotek	Anbo Anbo
The following modifications to this standard apply to appliances having UV emitters  This annex is not applicable to appliances covered by the scopes of IEC 60335-2-27, IEC 60335-2-59 or IEC 60335-2-109  The instructions for appliances incorporating UVC emitters include the substance of the following: WARNING—This appliance contains a UV emitter. Do not stare at the light source  For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant  THE ANNEX ZH (INFORMATIVE)  Common plug and socket-outlet types in CENELEC countries  In general, supply cords of single-phase appliances having a rated current not exceeding 16 A are fitted with a plug complying with the following standard sheets:  - for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4: - for class II appliances, standard sheet EU5, EU6 or EU7		tok Anbot Ak botek Anbotem A	notek anbotek Anbote	r 6
to appliances having UV emitters  This annex is not applicable to appliances covered by the scopes of IEC 60335-2-27, IEC 60335-2-59 or IEC 60335-2-109  The instructions for appliances incorporating UVC emitters include the substance of the following: WARNING — This appliance contains a UV emitter. Do not stare at the light source  For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant  THE ANNEX ZH (INFORMATIVE) Common plug and socket-outlet types in CENELEC countries  In general, supply cords of single-phase appliances having a rated current not exceeding 16 A are fitted with a plug complying with the following standard sheets:  - for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4:  - for class II appliances, standard sheet EU5, EU6 or EU7	ZG A		Anbotek Anbotek Anb	otek
by the scopes of IEC 60335-2-7, IEC 60335-2-59 or IEC 60335-2-109  The instructions for appliances incorporating UVC emitters include the substance of the following: WARNING — This appliance contains a UV emitter. Do not stare at the light source  For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant  ANNEX ZH (INFORMATIVE)  Common plug and socket-outlet types in CENELEC countries  In general, supply cords of single-phase appliances having a rated current not exceeding 16 A are fitted with a plug complying with the following standard sheets:  - for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4:  - for class II appliances, standard sheet EU5, EU6 or EU7	Anbotek		Anbotek Anbor	Nek Anborek
emitters include the substance of the following: WARNING — This appliance contains a UV emitter. Do not stare at the light source  For appliances incorporating UV emitters the manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant  ANNEX ZH (INFORMATIVE) Common plug and socket-outlet types in CENELEC countries  In general, supply cords of single-phase appliances having a rated current not exceeding 16 A are fitted with a plug complying with the following standard sheets:  - for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4:  - for class II appliances, standard sheet EU5, EU6 or EU7	Anbotek Anbotek	by the scopes of IEC 60335-2-27, IEC 60335-2-59	botek Anbotek Anbotek	N <sub>100</sub>
manufacturer delivers a declaration providing evidence that the plastic material exposed to the radiation is UV resistant  2H ANNEX ZH (INFORMATIVE) Common plug and socket-outlet types in CENELEC countries  In general, supply cords of single-phase appliances having a rated current not exceeding 16 A are fitted with a plug complying with the following standard sheets:  - for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4:  - for class II appliances, standard sheet EU5, EU6 or EU7	7.12.ZG	emitters include the substance of the following: WARNING — This appliance contains a UV	Anbotek Anbotek Anb	nbotek nbotek
Common plug and socket-outlet types in CENELEC countries  In general, supply cords of single-phase appliances having a rated current not exceeding 16 A are fitted with a plug complying with the following standard sheets:  - for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4:  - for class II appliances, standard sheet EU5, EU6 or EU7	32 Ambatak	manufacturer delivers a declaration providing evidence that the plastic material exposed to the	totek Anbotek Anbotek	Anboi Anboi
Common plug and socket-outlet types in CENELEC countries  In general, supply cords of single-phase appliances having a rated current not exceeding 16 A are fitted with a plug complying with the following standard sheets:  - for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4:  - for class II appliances, standard sheet EU5, EU6 or EU7	br.	Lotek Anbotek Anbo	Anbores And otek and	10K
exceeding 16 A are fitted with a plug complying with the following standard sheets:  - for class I appliances or class II appliances with functional earth, standard sheet EU2, EU3 or EU4:  - for class II appliances, standard sheet EU5, EU6 or EU7	ZH <sup>otek</sup> A		LEC countries	nbote <u>k</u>
functional earth, standard sheet EU2, EU3 or EU4:  - for class II appliances, standard sheet EU5, EU6 or EU7	Aupotok.			Anb N
or EU7	ek Anboro		potek Anbotek Anbotek	N
ANNEX ZI (INFORMATIVE) Information on the application of A11:2014 to EN 60335-1:2012 CENELEC CLC/TC 61(SEC)2096A  Clarification of the application of parts 2 in conjunction with the 2002 or 2012 version of EN	ibotek Ar		Anbotek Anbotek Anbo	ION N
Information on the application of A11:2014 to EN 60335-1:2012 CENELEC CLC/TC 61(SEC)2096A  Clarification of the application of parts 2 in conjunction with the 2002 or 2012 version of EN	Anbotek		Wipotek Wipoter V	N <sub>k</sub>
Information on the application of A11:2014 to EN 60335-1:2012 CENELEC CLC/TC 61(SEC)2096A  Clarification of the application of parts 2 in conjunction with the 2002 or 2012 version of EN	Anbo	abotek Anbote And tek abot	Aupor Aus	Anbol
conjunction with the 2002 or 2012 version of EN	ZI Ambor Ambor	Information on the application of A11:2014 to E	N 60335-1:2012	an'
The same of the sa	Potek Vu	conjunction with the 2002 or 2012 version of EN	Anbotek Anbotek An	poteHP



	IEC 60335_1X ATTACHM	IENT MANAGEMENT	anb
Clause	Requirement + Test	Result - Remark	Verdict
ZZA M	ANNEX ZZA (INFORMATIVE) RELATIONSHIP BETWEEN THIS EUROPEAN S OBJECTIVES OF DIRECTIVE 2014/35/EU [2014 COVERED		otek
Anbotek	This standard provides one means of conforming to safety objectives of Directive 2014/35/EU	otek Anbotek Anbotek	An Pre
nbotek	When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZA.1 confers a presumption of conformity with the safety objectives of that Directive and associated EFTA regulations	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	otek mbotek
Anbotek	Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the safety objectives	Otak Anbotek Anbotek	Anbo
br.	otek Anbotek Anbo	Antiore Anti	p.
anbotek Anbotek	RELATIONSHIP BETWEEN THIS EUROPEAN S ESSENTIAL REQUIREMENTS OF DIRECTIVE 2 COVERED		nbotek
	This standard provides one means of conforming to essential requirements of EU Directive	otek Anbotek Anbotek	Ambole Ambol
tek Anbotek Anbotek Anbotek		Anbotek	P Anborek
tek Anborek Anborek Anborek Anborek Anborek	to essential requirements of EU Directive 2006/42/EC  When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated	otek Anbotek	P Anbotek Anbotek Anbotek
hek Anhorek Anhorek Anhorek Anhorek Anhorek	to essential requirements of EU Directive 2006/42/EC  When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulations  Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the essential health and safety	ofek Anbotek	P Anborek Anborek Anborek
tek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	to essential requirements of EU Directive 2006/42/EC  When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulations  Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the essential health and safety	Anbotek  Anbotek	P Anborek Anborek Anborek
Ambotek Ambotek Ambotek Ambotek Ambotek Ambotek Ambotek Ambotek Ambotek	to essential requirements of EU Directive 2006/42/EC  When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulations  Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the essential health and safety requirements  ANNEX EN 62233:2008 + AC:2008	Anbotek Anbotek	P P P P P P P P P P P P P P P P P P P
Amborek	to essential requirements of EU Directive 2006/42/EC  When cited in the Official Journal under that Directive, compliance with the normative clauses of this standard given in Table ZZB.1 confers a presumption of conformity with the essential requirements of that Directive and associated EFTA regulations  Compliance with this Part 1 when used together with the relevant Part 2 provides one means of conformity with the essential health and safety requirements  ANNEX EN 62233:2008 + AC:2008  EMF- ELECTROMAGNETICS FIELDS	monto of EN 02222,2000	P P

























-----End of Report-----