

APPLICATION FOR RED DIRECTIVE On Behalf of JEICO

Industrial wireless remote controller
Model: JREMO 6K, JREMO 6KA, JREMO 6KB, JREMO 6KC, JREMO 6KM

Prepared For : JEICO

94-1, Choryang-ro, Dong-gu, Busan, Korea (48805)

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

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Date of Test: Sept. 12, 2018 to Oct. 10, 2018

Date of Report: Oct. 10, 2018

Report Number: SZAWW180912003-02S



TEST REPORT

IEC 60950-1

Information technology equipment – Safety –

Part 1: General requirements

Report Number.....: SZAWW180912003-02S

Date of issue.....: Oct. 10, 2018

Total number of pages...... 60 pages

Applicant's name...... JEICO

Test specification:

Standard.....: IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013

Test procedure.....: Type Tested

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

General disclaimer:

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

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Testing procedure and testing location:

Testing Laboratory: Shenzhen Anbotek Compliance Laboratory Limited

Testing location/ address...... 1/F, Building D, Sogood Science and Technology Park,

Sanwei community, Hangcheng Street, Bao'an District,

Ambodel

Shenzhen, Guangdong, China.518102

Tested by (name + signature).....: Yoli Peng

y. .

Approved by (+ signature).....: Jeff Zhu





Test item description.....: Industrial wireless remote controller

Trade Mark.....:

JEICO

Manufacturer.....: JEICO

94-1, Choryang-ro, Dong-gu, Busan, Korea (48805)

Model/Type reference.....: JREMO 6K, JREMO 6KA, JREMO 6KB, JREMO 6KC, JREMO

6KM

Ratings.....: TX Power: 3V==-, 32mA

RX Power: 100-230V~, 50/60Hz, 0.5A

Tests performed (name of test and test clause):

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

Electrical safety

EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:20 13

Testing location:

Shenzhen Anbotek Compliance Laboratory Limited 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



Copy of marking plate:



Industrial wireless remote controller

Model: JREMO 6K (TX)
Input: 3V=== 32mA

Product identification element: 1510001



Manufacturer: JEICO

Address: 94-1, Choryang-ro, Dong-gu,

Busan, Korea (48805)



Industrial wireless remote controller

Model: JREMO 6K (RX)

Input: 100-230V , 50/60Hz, 0.5A
Product identification element: 1510001



Manufacturer: JEICO

Address: 94-1, Choryang-ro, Dong-gu,

Busan, Korea (48805)

(The label should be attached to the back of the product.)

- The above markings are the minimum requirements required by the safety standard. For the final production samples, the additional markings which do not give rise to misunderstanding may be added.



Equipment mobility	Test item particulars:	And Anbotek Anbo Ak bote
Permanent connection Detachable power supply cord Non-detachable power supply cord Not directly connected to the mains built-in component, consider in end system Continuous Rated operating / resting time: OVC I	Equipment mobility:	
Over voltage category (OVC)	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	 ✓ Permanent connection ☐ Detachable power supply cord ☐ Non-detachable power supply cord ✓ Not directly connected to the mains
Mains supply tolerance (%) or absolute mains supply values	A. K Soter And	
values	Over voltage category (OVC):	
IT testing, phase-phase voltage (V)		±10%
Class of equipment	Tested for IT power systems:	☐ Yes No
Considered current rating of protective device as part of the building installlation (A)	IT testing, phase-phase voltage (V)	N.A.
Considered current rating of protective device as part of the building installlation (A)	Class of equipment	
of the building installlation (A)	tek Anbotek Anboo Anbotek Anbo	
IP protection class		
IP protection class	Pollution degree (PD)	□ PD 1 PD 2 PD 3
Mass of equipment (kg)	IP protection class	IP20
Mass of equipment (kg)	Altitude during operation (m):	2000
Mass of equipment (kg)	Altitude of test laboratory (m):	<500
- test case does not apply to the test object	Mass of equipment (kg):	Approx. 0.678Kg
- test object does meet the requirement	Possible test case verdicts:	be tek nbotek Anbote An notek
- test object does not meet the requirement: F (Fail) Testing: Date of receipt of test item: Sept. 12, 2018	- test case does not apply to the test object:	N (Not Applicable)
Testing Date of receipt of test item Sept. 12, 2018	- test object does meet the requirement:	P (Pass)
Date of receipt of test item Sept. 12, 2018	- test object does not meet the requirement:	F (Fail)
		ek Vupotey, Vupo,
	Date of receipt of test item:	Sept. 12, 2018
As and A solution with the solution of the sol		



General remarks:	nbotek				
"(See Enclosure #)" refers	to additional inforr	nation apper	nded to the re	oort.	Anbor K
"(See appended table)" refe	ers to a table appe	nded to the re	eport.		
Throughout this report a	□ comma / ⊠ p	oint is used	as the decin	nal separator.	
Note: Before placing the pro					
1. Operating Instructions, F of the county in question.	Ratings Labels and	Warnings La	abels written ir	n an Accepted or O	fficial Language
2. The equipment complies	with the National	Standards ar	nd/or Electrica	I Codes of the coul	ntry in question.
 According to the EU dire manufacturer and importer's on its packaging or in a doc 	s name and addres	ss shall be af	fixed on the p	roduct or, where th	at is not possible,
Manufacturer's Declaration	on per sub-clause	4.2.5 of IEC	EE 02:	oten Anho	k nbotek
The application for obtaining includes more than one fact declaration from the Manufa sample(s) submitted for evarepresentative of the product been provided	tory location and a acturer stating that aluation is (are) cts from each facto	the	Yes Not applicab	nbotek Anb le Anbotek Anb Anbotek A	nbotek Anbotek Anbotek Anbote
ok hotek Anbi	Dr. All	k nbote	Aupo	k "otek	Vupote. b
When differences exist; the	any chall ha idant	ified in the (Conoral produ	et information co	otion shotek
And And	dox Auto). b	101	HOTEL MADE	ction. All
Name and address of fac	tory (les)	: Sa	me as manuia	icturer Anbo	Ans Ans
Anbotek Anbotek	Anbotek	Anbotek	Anboro	And botek A	hotek Anbo
Remark:					
 Clearance was evaluated 	d for altitude up to	2000m abov	ve sea level.		
2. The EUT can operate wi	th full load at amb	ient tempera	ture up to 60°	C. Anbor	
 All models are identical, model "JREMO 6K" was che 					pecified, the
Abbreviations used in the	report:	Anboten	AUDO	shotek Ar	por Pu
	Ann				Anbotek Anbi
- normal conditions	N.C.			fault conditions	S.F.C
functional insulation	OP DI			insulation	n Sl oter
double insulationbetween parts of opposite	יסא אטו אסי אטו		- supple	ementary insulation	II Slov
polarity	ВОР		- reinfor	ced insulation	ek Rinboten
Indicate used abbreviation	ns (if any)	Anbotek	Anbotek	Anbe hotek An	hotek Anbote



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'Upo K	IEC 60950-1	Aupo, W. Wek	Anboten
Clause	Requirement – Test	Result - Remark	Verdict
Anbore	And Jest andrew Andrew Andrew	otek Anboten Anbe	- 205
1 Anhotek	GENERAL	otek Anbotek Anbote	P.n.
Cex Yes	tek Anbore Ant Otek Anboren A	inpot his potek Anbot	P.
1.5	Components	Anbore And Andrek And	otek P
1.5.1	General	Anboten Anb	P P
Anbotek	Comply with IEC 60950-1 or relevant component standard	(see appended table 1.5.1)	Anbotek Anbotek
1.5.2	Evaluation and testing of components	lek Anbo tek botek	Rupo
1.5.3	Thermal controls	No thermostat and temperature limiter used for thermal control circuit	otek N Ar
1.5.4	Transformers	See annex C	abot P
1.5.5	Interconnecting cables	. Anbotek Anbote	Piek
1.5.6	Capacitors bridging insulation	Y-cap (CY1), comply with IEC/EN 60384-14	An P
1.5.7	Resistors bridging insulation	notek Anboten Anb	Р
1.5.7.1	Resistors bridging functional, basic or supplementary insulation	Functional insulation only	otek P A
1.5.7.2	Resistors bridging double or reinforced insulation between a.c. mains and other circuits	Anbotek Anbotek	nbote Ň
1.5.7.3	Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable	ak Anbotek Anbotek	Anbot nbot
1.5.8	Components in equipment for IT power systems	Not directly connected to the mains	N
1.5.9	Surge suppressors	Aupoten Aupo	tek N
1.5.9.1	General	Aupotek Aupor Att	noteN
1.5.9.2	Protection of VDRs	nbotek Anbote A	N
1.5.9.3	Bridging of functional insulation by a VDR	ok hotek Anboien	N .
1.5.9.4	Bridging of basic insulation by a VDR	K Anbotek Anbotek	N
1.5.9.5	Bridging of supplementary, double or reinforced insulation by a VDR	botek Anbotek Anbotek	NAM'
otek Anb	oter Antotek Antotek	Anbotek Anbotek Anbo	rek
1.6	Power interface	And otek anbotek A	Py
1.6.1	AC power distribution systems	TN, TT power distribution system	Anbote.
1.6.2	Input current	(see appended table 1.6.2)	P v
1.6.3	Voltage limit of hand-held equipment	tek abotek Anbotek	v N
1.6.4	Neutral conductor	Basic insulation provided	Р
Or AUD	botek Anbotek Anbo Ar botek	Anbote And	botek
1.7.1	Power rating and identification markings	Anboten Anbo A	anbotek
1.7.1.1	Power rating marking	Anbotek Anbote	Pote
No.K.	I owor rating manting	nok bole	VILLE



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Aupo N	IEC 60950-1	Anbox K Air notek	Anbote
Clause	Requirement – Test	Result - Remark	Verdict
Anbole.	Ann otek Abotek Anbos An	tek Amboten Anbo	- nobol
k Anbote	Multiple mains supply connections	wrek Anbotek Anbo	N
nek nab	Rated voltage(s) or voltage range(s) (V)	See label	P An
- 104 - 1	Symbol for nature of supply, for d.c. only	- tek abotek An	oter P
upo. P	Rated frequency or rated frequency range (Hz):	See label	znbotP.
Anboro	Rated current (mA or A)	See label	Prek
1.7.1.2	Identification markings	ek Aupoter Vupo	P
Anboten	Manufacturer's name or trade-mark or identification mark	Manufacturer: JEICO	k Pi
year Anbo	Model identification or type reference:	See page 1	otek P
	Symbol for Class II equipment only:	otek Anborek An	inbote P
Anbotek Anbotek	Other markings and symbols:	Additional symbol or marking does not give rise to misunderstanding used.	Anhote Anhote
1.7.1.3	Use of graphical symbols	otek Anbotek Anbote	AK P
1.7.2	Safety instructions and marking	Anbo tek anbotek Ant	Р
1.7.2.1	General	Anco lek abotek	nboten P
1.7.2.2	Disconnect devices	Anbor All hotek	AnbPieh
1.7.2.3	Overcurrent protective device	Anbote And	Noore
1.7.2.4	IT power distribution systems	Not connected to IT power distribution systems	NAMO
1.7.2.5	Operator access with a tool	No such area	tek N
1.7.2.6	Ozone	No ozone	nbote N
1.7.3	Short duty cycles	Continuous operation	No No K
1.7.4	Supply voltage adjustment	No such device	Note
Anbotek	Methods and means of adjustment; reference to installation instructions:	otek Anbotek Anbotel	N
1.7.5	Power outlets on the equipment:	No such device	cek N P
1.7.6	Fuse identification (marking, special fusing characteristics, cross-reference)	F1, F2 marked on PCB near fuse and marked marked on schematic	ibote ^V P
1.7.7	Wiring terminals	No wiring terminal	Notek
1.7.7.1	Protective earthing and bonding terminals:	tek shotek Anbotek	P
1.7.7.2	Terminals for a.c. mains supply conductors	or Annotek Anbotek	, N
1.7.7.3	Terminals for d.c. mains supply conductors	No such terminals	N N
1.7.8	Controls and indicators	140 Suon terminais	poteKIN
1.7.8.1	Identification, location and marking:	Anbotek Anbo A	Anbotek
1.7.8.2	Colours	upotek tupor	V. Notek



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AND OK	IEC 60950-1	Anbo	Anbore
Clause	Requirement – Test	Result - Remark	Verdic
- Anbore	And Andrew Andrew Andrew All	tek Aupoter, Aup	200
1.7.8.3	Symbols according to IEC 60417	notek Anbotek Anbot	N _{co.}
1.7.8.4	Markings using figures	No figures markings	N
1.7.9	Isolation of multiple power sources	LOK POLY PL	oter N
1.7.10	Thermostats and other regulating devices	No such regulating device	Nodo
1.7.11	Durability	Rubbing test for 15 s with water then for 15 s with petroleum spirit	Antore
1.7.12	Removable parts	tek abotek Anbote	N
1.7.13	Replaceable batteries	oo kak abotek Anboti	Р
rok k	Language(s)	English	oter -
1.7.14	Equipment for restricted access locations:	Anbote K And Lotek	nboteN
Anboto	Am otek Anbotek Anbotek hotek	Anbote Anbotek	nbote
2 Anboton	PROTECTION FROM HAZARDS	tek Aupoter Aupon	P
2.1 Anbote	Protection from electric shock and energy hazards	otek Anbotek Anbote	P
2.1.1	Protection in operator access areas	stek anbotek Anbote	, P
2.1.1.1	Access to energized parts	Anto cek abotek Anb	Р
bo. bek	Test by inspection:	Aubor Andrek	nboten P
Anbot	Test with test finger (Figure 2A)	Anbore An Sotek	AnbPie
Anbore	Test with test pin (Figure 2B)	ek Aupote Aug	Pho
Aupora	Test with test probe (Figure 2C):	No TNV circuit within the equipment	N
2.1.1.2	Battery compartments	Anbo Ak Abotek Anb	Р
2.1.1.3	Access to ELV wiring	No internal wiring at ELV	nbote N
Anbotek	Working voltage (Vpeak or Vrms); minimum distance through insulation (mm)	(See appended tables 2.10.2 and 2.10.5)	Anbotek
2.1.1.4	Access to hazardous voltage circuit wiring	ak hotek Anboten	PN
2.1.1.5	Energy hazards:	oto Annotek Anbotek	Ne
2.1.1.6	Manual controls	No such control	Kek N
2.1.1.7	Discharge of capacitors in equipment	Aupotes Aupo tek	botekN
'upote.	Measured voltage (V); time-constant (s)	Anbotek Anbo. A	"botek
2.1.1.8	Energy hazards – d.c. mains supply	k Anbotek Anbote	No
Anbotek	a) Capacitor connected to the d.c. mains supply:	tek upotek Aupotek	N
Anbot	b) Internal battery connected to the d.c. mains supply:	Thotek Anbotek Anbotek	ek N
2.1.1.9	Audio amplifiers	Vupotek Vuporz Vu	note ^K N
2.1.2	Protection in service access areas	No services access areas	N _e
2.1.3	Protection in restricted access locations	Equipment not intended to used in restricted access	Anbot Anbot



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Yur	IEC 60950-1	Anbo	Anbore
Clause	Requirement – Test	Result - Remark	Verdict
Anbore	And stek Anbotek Anbot An	tek Amboten Anbo	, abo
k Anbote	Anbo Kek abotek Anbote And	locations	ok N.
day Note	otek Anbotek Anbotek Anbotek	nbo dek Anbor	N AT
2.2	SELV circuits	Anbo. A. Hotek An	oter P
2.2.1	General requirements	(see appended table 2.2)	nbot P
2.2.2	Voltages under normal conditions (V) :	Lessthan42.4Vpeakor60Vd.c	Prek
2.2.3	Voltages under fault conditions (V):	Less than 71Vp or 120Vp within 0.2s and less than 42.4Vp or 60Vd.c. after 0.2s.	Anbot
2.2.4	Connection of SELV circuits to other circuits:	Connect to SELV circuits only	P An
ber ber	hotek Anbote And tek abotek	Anbote And	otek
2.3	TNV circuits	Anboten Anb	nboteN
2.3.1	Limits of Anbotek Anbotek	No TNV circuits	N'ek
Anboten	Type of TNV circuits:	ek anbotek Anbot	PO.
2.3.2	Separation from other circuits and from accessible parts	potek Anbotek Anbote	N Ant
2.3.2.1	General requirements	Anbotek Anbo tek	otek N
2.3.2.2	Protection by basic insulation	Anbotek Anbote An	"oteN
2.3.2.3	Protection by earthing	abotek Anbots	Nek
2.3.2.4	Protection by other constructions:	ak abotek Anboten	Amb N ste
2.3.3	Separation from hazardous voltages	tok hotek Anbotek	N
ok ho	Insulation employed:	Both Ambotek Anbote	And
2.3.4	Connection of TNV circuits to other circuits	Anboton Ann otek anb	N I
Poter VI	Insulation employed:	Aupotes Aupo	abotek_
2.3.5	Test for operating voltages generated externally	Anbotek Anbos A	Nok
Anbotek	Vupas Vik Postek Vupores Villa	ek Anbotek Anbote	Rote
2.4 Anbotek	Limited current circuits	rek abotek Anbote	Р
2.4.1	General requirements	tek abotek Anbotes	PART
2.4.2	Limit values	54.607mA	Р
or An	Frequency (Hz):	78.01KHz	potek
Anbore	Measured current (mA):	3.276mA	Anbotek
Anboten	Measured voltage (V):	6.55V	- Apotel
Anbotok	Measured circuit capacitance (nF or μF)	otek Anbotek Anbote	/0
2.4.3	Connection of limited current circuits to other circuits	hbotek Anbotek Anbotek	ek N
Pore Vu.	otek Anbotek Anbe ok motek	Anbotes Anbo stek	botek
2.5	Limited power sources	Anbotel Anbot Al	~oN ^k
hotel.	a) Inherently limited output	stek subote	Notel



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Clause	Requirement – Test	Result - Remark	Verdic
a abolek	Anbound Anbotek Anbotek Anbo.	tok hotek Anbotes	Amaio
hote	b) Impedance limited output	k And otek Anbotek	Nup
iek Anb	c) Regulating network limited output under normal operating and single fault condition	botek Anbotek Anbot	ek N
botek P	Use of integrated circuit (IC) current limiters	Anbotek Anbotek An	N.
notek	d) Overcurrent protective device limited output	Anti-	Anbo N
Anbotek	Max. Output voltage (V), max. Output current (A), max. Apparent power (VA):	See table 2.5	Anbor
Aupore,	Current rating of overcurrent protective device (A).:	potek Anbotek Anbot	9/4 - b
K Bur	Use of integrated circuit (IC) current limiters	Anbores And Otek And	otek
pote A	notek Anbotek Anbotek hotek	Anhoten Anho tek	nbotek
2.6	Provisions for earthing and bonding	Anbotek Anbot	Ne
2.6.1	Protective earthing	lek Anbotek Anbot	N
2.6.2	Functional earthing	otek nbotek Anbote	N
ek Anbo	Use of symbol for functional earthing:	Anbotek Anbotek Anbot	otek NA
2.6.3	Protective earthing and protective bonding conductors	Anbotek Anbotek	nboteN
2.6.3.1	General	Anbo tek abotek	AUDU
2.6.3.2	Size of protective earthing conductors	ek Anbo. A. botek	Noo
Anbo	Rated current (A), cross-sectional area (mm²), AWG:	otek Anbotek Anbote	- P.
2.6.3.3	Size of protective bonding conductors	And tek abotek And	N
Anbotek	Rated current (A), cross-sectional area (mm²), AWG:	Anbotek Anbotek	hotek-
Anbotek	Protective current rating (A), cross-sectional area (mm²), AWG	ek Anbotek Anbotek	Anbo
2.6.3.4	Resistance of earthing conductors and their terminations; resistance (Ω), voltage drop (V), test current (A), duration (min):	otek Anbotek Anbotek	N _A r
2.6.3.5	Colour of insulation:	Anbotes Anbo	Ipote ^N N
2.6.4	Terminals	Anboten Anbo ek	~pcN*
2.6.4.1	General	k Anbotek Anbot	N _o t
2.6.4.2	Protective earthing and bonding terminals	tek abotek Anbote	N
k Anboth	Rated current (A), type, nominal thread diameter (mm)	hbotek Anbotek Anbote	Tek V
2.6.4.3	Separation of the protective earthing conductor from protective bonding conductors	Anbotek Anbotek An	poteKN
2.6.5	Integrity of protective earthing	Aupo. A.	Noote



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, tok	IEC 60950-1	VI.	And
Clause	Requirement – Test	Result - Remark	Verdict
Pupore	An atek anotek Anoo Ak	tek Amore And	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2.6.5.2	Components in protective earthing conductors and protective bonding conductors	botek Anbotek Anbote	No.
2.6.5.3	Disconnection of protective earth	abotek Anbote And	_{stek} N
2.6.5.4	Parts that can be removed by an operator	Anbotek Anboten An	N
2.6.5.5	Parts removed during servicing	An hotek Anbotek	Yupo N P
2.6.5.6	Corrosion resistance	Ann otek Anbotek	PUN.
2.6.5.7	Screws for protective bonding	ler And stek anbotek	Nipo
2.6.5.8	Reliance on telecommunication network or cable distribution system	botek Anbotek Anbote	K N N
otek .	hotek Anbotek Anbotek	Anbotek Ant	,ote
2.7	Overcurrent and earth fault protection in primary of	ircuits	'upore
2.7.1	Basic requirements	Anbor An hotek	AntPres
Anbotek	Instructions when protection relies on building installation	tek Anbotek Anbotek	Nipo
2.7.2	Faults not simulated in 5.3.7	bot A. botek Anbote	N bz
2.7.3	Short-circuit backup protection	Building installation is considered as the short-circuit backup protection	otek obotek
2.7.4	Number and location of protective devices	One fuse F1, F2 provided in line conductor	Anb Bek
2.7.5	Protection by several devices	ek Anbo tek abotek	Pool
2.7.6	Warning to service personnel	Mentioned in service instruction	PAN
Y Vui	otek Anbotek Anbot Ak botek	Anboren Anbo stek anb	otek
2.8	Safety interlocks	Aupotek Aupon Mi	Netode
2.8.1	General principles	No safety interlocks	N _{SK}
2.8.2	Protection requirements	ek Anbotek Anbote	Not
2.8.3	Inadvertent reactivation	stek shotek Anbote	N
2.8.4	Fail-safe operation	tek potek Anbote	, N _{brit}
stek sai	Protection against extreme hazard	Anbor Anborek Anbo	N
2.8.5	Moving parts	Anbor All hotek A	pote. N
2.8.6	Overriding	Anbor And Sotek	Aupolok
2.8.7	Switches and relays and their related circuits	K Aupores Aura-otek	Note Note
2.8.7.1	Separation distances for contact gaps and their related circuits (mm):	otek Anbotek Anbotek	N
2.8.7.2	Overload test	hoot An notek Anbo	N
2.8.7.3	Endurance test	Anbote. And Joseph Ar	posek N
2.8.7.4	Electric strength test	Anboter Anbo Atek	Vupotek
2.8.8	Mechanical actuators	K Anbotak Anbo	Note



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	IEC 60950-1		
Clause	Requirement – Test	Result - Remark	Verdict
Aupote.	And Stek another Anboy At	otek Anboten Anbe	700
k Anbotel	Aubor A. Andotek Aubore, Aub	otek anbotek Anbot	Y. VI
2.9	Electrical insulation	upo k. upotek vupot	PA
2.9.1	Properties of insulating materials	Anbor All hotek And	oo ^{ten} P
2.9.2	Humidity conditioning	120hrs	-nbotP
Anbore	Relative humidity (%), temperature (°C)	40°C, 95%	hotek
2.9.3	Grade of insulation	Functional insulation, basic insulation, supplementary insulation, reinforced insulation or double insulation provided	K An
2.9.4	Separation from hazardous voltages	Ant notek Anbotek Ani	P
n otek	Method(s) used	Method 1, 3	rupor-
Anbo	abotek Anbote K Anti-otek Anbotek	Anbo Ak Abotek	Anbote
2.10	Clearances, creepage distances and distances thr	ough insulation	Phot
2.10.1	General	potek Anbore Ans	E Pant
2.10.1.1	Frequency	Considered	tek P
2.10.1.2	Pollution degrees	2 Anbote Anh	P
2.10.1.3	Reduced values for functional insualtion	See 5.3.4	P.K
2.10.1.4	Intervening unconnected conductive parts	Anna otek anbotek	Aupor
2.10.1.5	Insulation with varying dimensions	Anbo tek abotek	PPpop
2.10.1.6	Special separation requirements	otek Anbos kek abotel	NAND
2.10.1.7	Insulation in circuits generating starting pulses	Inpotek Anbous An	iek N
2.10.2	Determination of working voltage	(see appended table 2.10.2)	hote/P
2.10.2.1	General	abotek Anbots A	Pek
2.10.2.2	RMS working voltage	(see appended table 2.10.2)	Ana P
2.10.2.3	Peak working voltage	(see appended table 2.10.2)	PP
2.10.3	Clearances	oter Amotek Ambotel	PAND
2.10.3.1	General	rupotor Hupo	ick P P
2.10.3.2	Mains transient voltages	Anbotek Anbo	bote/P
Anbotek	a) AC mains supply·····::	2500Vpeak	"GEK
Anbotek	b) Earthed d.c. mains supplies ·····:	K nbotek Anbote	Notel
anbotek	c) Unearthed d.c. mains supplies ·····:	tek abotek Anboten	N
ak abote	d) Battery operation · · · · :	lek hotek Anbotek	N
2.10.3.3	Clearances in primary circuits	(see appended table 2.10.3 & 10.2.34)	otek P A
2.10.3.4	Clearances in secondary circuits	abotek Anboten Ar	N ^c
2.10.3.5	Clearances in circuits having starting pulses	All stek aboton	Anho N _{tek}



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"Upo ok	IEC 60950-1	Anbo A. A. A.	Anboten
Clause	Requirement – Test	Result - Remark	Verdict
Anbote	And her another Ambot An	tek Amboten Ambo	700
2.10.3.6	Transients from a.c. mains supply	otok Anbotek Anbote	N°
2.10.3.7	Transients from d.c. mains supply:	los habotek Aupor	NA
2.10.3.8	Transients from telecommunication networks and cable distribution systems	Anbotek Anbotek An	o ^{ten} N
2.10.3.9	Measurement of transient voltage levels	Ar. hotek Anboten	YUDO N'EA
A. botek	a) Transients from a mains suplply	-k hotek Anbotek	MUN
All. hotek	For an a.c. mains supply	Ans otek Anbotek	Nupo
K Ann	For a d.c. mains supply	bote. And otek anbote	NA
Ano	b) Transients from a telecommunication network.:	Anboten Anbo tek	otek N
2.10.4	Creepage distances	(see appended table 2.10.3 & 10.2.34)	inboté P
2.10.4.1	General	Anbo tek nbotek	Nubore
2.10.4.2	Material group and caomparative tracking index	an Anbor An abotek	IB/po
Anbo	CTI tests:	potek Anbor An note	r N.
2.10.4.3	Minimum creepage distances	(see appended table 2.10.3 & 10.2.34)	otek P
2.10.5	Solid insulation	Anbor An abotek	nboten P
2.10.5.1	General	Auport Kur Potek	AnbPlek
2.10.5.2	Distances through insulation	(see appended table 2.10.5)	Root
2.10.5.3	Insulating compound as solid insulation	otek Anboten Ann	N
2.10.5.4	Semiconductor devices	stotek Anboten Anbo	tek N
2.10.5.5	Cemented joints	hotek Anbotes Anb	N
2.10.5.6	Thin sheet material	hotek Anbotek A	N.K
2.10.5.7	Separable thin sheet material	k -otek Anbotek	Anbou
And hotek	Number of layers (pcs):	Ann stek anbotek	Pupo.
2.10.5.8	Non-separable thin sheet material	otek Anbotek	Nan
2.10.5.9	Thin sheet material – standard test procedure	Tupotek Vupo, Vi	rek N
otek Anb	Electric strength test	Anbotek Anbote An	notek_
2.10.5.10	Thin sheet material – alternative test procedure	anbotek Anbote A	"N _K
Anbotek	Electric strength test	k abotek Anbote	Vun
2.10.5.11	Insulation in wound components	tek abotek Anboten	N
2.10.5.12	Wire in wound components	sek abotek Anbotek	N
rek bu	Working voltage	hoose And hotek Anbo	N
Or Nun	a) Basic insulation not under stress:	Anbore And And	pote ^K N
'upote, b	b) Basic, supplemetary, reinforced insulation:	Anboten Anbo rek	nboli
Anboten	c) Compliance with Annex	· Aupotek Aupo	Note



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- wotok	IEC 60950-1	- stek supoter	VUD.
Clause	Requirement – Test	Result - Remark	Verdict
Pupor - K	U. motek Anbotek Anbo	tek Ambore Amb	Vupe
Aupote.	Ant botek anbo A	notek Anbotek Anbo	N N
	Two wires in contact inside wound component; angle between 45° and	Anbotek Anbotek Anbo	N N
stek or	90°	Anbo tek abotek Ani	Jore
2.10.5.13	Wire with solvent-based enamel in wound components	Anbotek Anbotek	Anboth Notek
Anbotek	Electric strength test	ek nbotek Anbote	N N
nbotek	Routine test	tek abotek Anbote	N
2.10.5.14	Additional insulation in wound components	both Anboth	N AT
N. K.	Working voltage	Anbore Am otek Ant	otek N
100 rg. Vu	- Basic insulation not under stress	Anbores Anb	nbotek
Anbolo	- Supplemetary, reinforced insulation	Amboten Ambo	" Wek
2.10.6	Construction of printed boards	sk Aupoten Aupo	Pool
2.10.6.1	Uncoated printed boards	(see appended table 2.10.3 and 2.10.4)	P
2.10.6.2	Coated printed boards	Anbotes Anbo stek anb	otek N
2.10.6.3	Insulation between conductors on the same inner surface of a printed board	Anbotek Anbotek	nbotek
2.10.6.4	Insulation between conductors on different layers of a printed board	k Anbotek Anbotek	Anbot Anbot
Anbore	Distance through insulation	otek Anboten Anbo	N
anbote Anbote	Number of insulation layers (pcs)	notek Anbotek Anbo	N N
2.10.7	Component external terminations	Anbotek Anbotek Anb	N
2.10.8	Tests on coated printed boards and coated components	Anbotek Anbotek A	nbote N
2.10.8.1	Sample preparation and preliminary inspection	k Anbotek Anbo	Note
2.10.8.2	Thermal conditioning	otek Anbotek Anbot	N
2.10.8.3	Electric strength test	stek nbotek Anbote	N
2.10.8.4	Abrasion resistance test	rupe tek upotek Aupo	N
2.10.9	Thermal cycling	Vupos Br. Posek V.	poten N
2.10.10	Test for Pollution Degree 1 environment and insulating compound	Anbotek Anbotek	Anb N hote
2.10.11	Tests for semiconductor devices and cemented joints	otek Anbotek Anbotek	Anb Anb
2.10.12	Enclosed and sealed parts	hbotek Anbote An	ek N
otek Anb	ok hotek Anbotes Ans	anbotek Anbote Ano	otek
3 potek A	WIRING, CONNECTIONS AND SUPPLY	Anboten Ar	Br
3.1otek	General	Ant abotek	Anbore P. of



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"I.	IEC 60950-1	,	Ant	Aupor
Clause	Requirement – Test	otel	Result - Remark	Verdic
3.1.1	Current rating and overcurrent protection	Anbo	tok Aupolo And botek	Pul
3.1.2	Protection against mechanical damage	7	ibotek Anbore And	. P
3.1.3	Securing of internal wiring	P	abotel Anbote Anb	otek P
3.1.4	Insulation of conductors	14	All Anboten Ar	P
3.1.5	Beads and ceramic insulators		Antotek Anbotek	Ne
3.1.6	Screws for electrical contact pressure	Ofe.	K And Sotek Anbotek	Ambor.
3.1.7	Insulating materials in electrical connections	'upo	er Andotek Anbotek	P
3.1.8	Self-tapping and spaced thread screws	AT	parek Aupo rek Woo	N P
3.1.9	Termination of conductors		Anbotek Anhor An	dotek P
potek	10 N pull test	7	Anbotek Anbote Ar	hotek
3.1.10	Sleeving on wiring	10K	h. abotek Anbote	We,
nbotek	Anbolek Anbolek Anh	0.	ek botek Anbotek	Villa
3.2	Connection to a mains supply	Upo,	Lak hotek Anhotek	P
3.2.1	Means of connection	An	pote And Sotek Anbot	Р
3.2.1.1	Connection to an a.c. mains supply		Anbote, K wotek Wu	potek P
3.2.1.2	Connection to a d.c. mains supply	,	Anboren Anbo	Napotek N
3.2.2	Multiple supply connections	tek	Anbotek Anbo	" " Pyer
3.2.3	Permanently connected equipment	roti	Aupotek Aupo	Noc
Anbote	Number of conductors, diameter of cable and conduits (mm)	Ani	otek Anbotek Anbot	s/ - A'
3.2.4	Appliance inlets		Anboten Anb Otek An	N N
3.2.5	Power supply cords		Anboten Anbo	abotek N
3.2.5.1	AC power supply cords	tek.	Anbotok Anbo	No Nek
Anbotek	Type	-056	k Aupotek Aupor	-200
K Anbotel	Rated current (A), cross-sectional area (mm²), AWG	200	otek Anbotek Anbote	k V
3.2.5.2	DC power supply cords		inpoten Aupo tek up	o rek N
3.2.6	Cord anchorages and strain relief		Aupotes, Vuon Yek	,bote ^K N
Inpotek.	Mass of equipment (kg), pull (N)	eK.	Anbotek Anbot	- hotek
Anbotek	Longitudinal displacement (mm)		K Anbotek Anbote	Po.
3.2.7	Protection against mechanical damage	, p	tek hotek Anbote	N
3.2.8	Cord guards	AND	tek abotek Anbote	N
otek A	Diameter or minor dimension D (mm); test mas	s P :	Anbotek Anbotek Anb	olek Jootek
nbotek	Radius of curvature of cord (mm)	. Y	nbotek Anbote	"Otek
3.2.9	Supply wiring space)	botek Anbotes	N.



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Notok	IEC 60950-1	Al. Stek Suppler	VUDO
Clause	Requirement – Test	Result - Remark	Verdict
3.3	Wiring terminals for connection of external conduc	ctors	N N
3.3.1	Wiring terminals	No such wiring terminals	otek N
3.3.2	Connection of non-detachable power supply cords	Anbotek Anbotek An	Anbot. N
3.3.3	Screw terminals	Anbo. tek abotek	An Wie
3.3.4	Conductor sizes to be connected	lek Anbo. Al. hotek	Napo
ek Anbor	Rated current (A), cord/cable type, cross- sectional area (mm²)	nbotek Anbote Am	sk by
3.3.5	Wiring terminal sizes	Anborra Andrek An	N
Anbotek	Rated current (A), type, nominal thread diameter (mm)	Anbotek Anbotek	Inbotek notek
3.3.6	Wiring terminal design	lek abotek Anbote	PUN N
3.3.7	Grouping of wiring terminals	ok Anbote.	N
3.3.8	Stranded wire	bore An botek Anbote	NAG
V. V.	hotek Anbotek Anbo Lek abotek	Anbote Ant otek Ant	otek
3.4	Disconnection from the mains supply	Anbote. And atek	nboteP
3.4.1	General requirement	Anbotek Anbo	,bRek
3.4.2	Disconnect devices	rek Anbotek Anbot	Pot
3.4.3 Model	Permanently connected equipment	otek anbotek Anbote	N
3.4.4	Parts which remain energized	stek anbotek Anbote	PAR
3.4.5	Switches in flexible cords	Anbo tek abotek Anb	N
3.4.6	Number of poles – single-phase and d.c. equipment	Anbotek Anbotek	nbote P
3.4.7	Number of poles – three-phase equipment	ek nbotek Anbote	All N
3.4.8 motel	Switches as disconnect devices	tek abotek Anbote	Ň
3.4.9	Plugs as disconnect devices	to tek abotek Anbote	NAM
3.4.10	Interconnected equipment	No such equipment	N
3.4.11	Multiple power sources	Anbore K Notek	Note N
'upor	Andrew Anbotek Anbo tek potek	Anbore And Otek	Anbotek
3.5	Interconnection of equipment	ak Anboten Anbe	Pote
3.5.1 _m	General requirements	ptek Anbotek Anbot	P
3.5.2 _{knb} ot	Types of interconnection circuits	Connect to SELV circuits	P
3.5.3	ELV circuits as interconnection circuits	No ELV circuit	N
3.5.4	Data ports for additional equipment	Anbo tek abotek Al	poter P
Upo	And And Arek	Vupor Vu	hotek



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'upo ok	IEC 60950-1	Anbo K All watek	Aupoter
Clause	Requirement – Test	Result - Remark	Verdict
Ambore.	And tek abotek Anbot An	tek Anboten Anbo	P-
4.1 hotek	Stability	tek apotek Anhore	N
10d No.	Angle of 10°	ibos Ar potek Anbot	NP
K Dir	Test force (N)	Anbore An atek and	oten N
pote. An	tek abotek Anbot K atek	Anboten Anbo	botek
4.2	Mechanical strength	abotek Anbore	Ann Prek
4.2.1	General	K hotek Anboten	MAN
4.2.2	Steady force test, 10 N	k And otek Anbotek	Š ⁱ ρ _o
4.2.3	Steady force test, 30 N	poter Anbotek nbote	K N P
4.2.4	Steady force test, 250 N	Anbotek Anbo tek At	otek P
4.2.5	Impact test	Anbotek Anbott An	PotoP
anbotek	Fall test	500g, 1.3m	Piek
abotek	Swing test	ok botek Anboten	And
4.2.6	Drop test; height (mm)	k notek Anbotek	N
4.2.7	Stress relief test	90°C, 7h	PA
4.2.8	Cathode ray tubes	Ambotek Ambo stek anb	otek N
poter. Ani	Picture tube separately certified:	Anbotek Anbo tek	Notok
4.2.9	High pressure lamps	No high pressure lamps in the equipment.	AnbNek
4.2.10	Wall or ceiling mounted equipment; force (N):	Not intended to be mounted on a wall or ceiling.	Noo
4.2.11 Anbote	Rotating solid media	totek Anbotek Anbo	N N
otek anb	Test to cover on the door	and stek anbotek Anbr	N
*ek	nbotek Anbote Anbotek Anbotek	Anbos An botek A	upoten
4.3	Design and construction	Anbore And Motek	AnbPrek
4.3.1	Edges and corners	The outer surface of the equipment is smooth	A.Poot
4.3.2	Handles and manual controls; force (N)	or Antotek Anbotek	NAM
4.3.3	Adjustable controls	No adjustable controls	N
4.3.4	Securing of parts	Anbote Anb	,botek
4.3.5	Connection by plugs and sockets	Auporen Aupo A	Node N
4.3.6	Direct plug-in equipment	K anbotek Anbot	Note
Y.	MOLY ALL YOK MO	b.,	- ap

No such elements

N

N

Р

Torque

Compliance with the relevant mains plug

standard.....

Heating elements in earthed equipment

- Overcharging of a rechargeable battery

4.3.7

4.3.8



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Nok	IEC 60950-1	All stek spoter	AUD
Clause	Requirement – Test	Result - Remark	Verdict
Aupore	Ant Lek Sofek Anbo Air	tek Ambolen Amb	100
Anbotek	- Unintentional charging of a non-rechargeable battery	Non-rechargeable battery	P ^{NV}
tek Anbo	- Reverse charging of a rechargeable battery	abotek Anbote And	N Kek
	- Excessive discharging rate for any battery	hotek Anboten An	N
4.3.9	Oil and grease	No oil and grease	Yupo N
4.3.10	Dust, powders, liquids and gases	No dust, powders, liquids and gases	PUN.
4.3.11	Containers for liquids or gases	No such containers	N
4.3.12	Flammable liquids	No flammable liquid	N
otek an	Quantity of liquid (I):	Anbotek Anhotek Anh	N
otek.	Flash point (°C)	Anbe tek abotek	upoten K
4.3.13	Radiation	Anbo. As. botek	Pup. View
4.3.13.1	General	ek Anbott Ant Hotek	Noo
4.3.13.2	Ionizing radiation	No ionizing radiation	· N
ek Anbot	Measured radiation (pA/kg)	botek Anboten Anbo	tek
ootek An	Measured high-voltage (kV)	hotek Anbotek Anb	40/4
hotek	Measured focus voltage (kV):	And Anbotek	upor
Androtek	CRT markings	Ann otek Ambotek	Aupor
4.3.13.3	Effect of ultraviolet (UV) radiation on materials	No ultraviolet radiation	Noo
anbote Anbote	Part, property, retention after test, flammability classification	potek Anbotek Anbote	NAM
4.3.13.4	Human exposure to ultraviolet (UV) radiation:	and stek anbotek Anb	N
4.3.13.5	Lasers (including laser diodes) and LEDs	Anbo tek abotek A	upote.
4.3.13.5.1	Lasers (including laser laser diodes)	Anbo Ak abotek	AUDU
Aupo	Laser class	Class I	Anboth
4.3.13.5.2	Light emitting diodes (LEDs)	otek Anbote Ans notel	- An
4.3.13.6	Other types	abotek Anbote And	Kek N
otek Anb	ote And Otek Anbotek Anbot	Anbotek Anbotek Anb.	rek
4.4	Protection against hazardous moving parts	All Motek Anbotek A	N ^K
4.4.1	General	And otek Anbotek	Aupor
4.4.2	Protection in operator access areas:	Anb stek anbotek	PNOC
K Anbotel	Household and home/office document/media shredders	(see Annex EE)	N _e nt
4.4.3	Protection in restricted access locations:	nbotek Anbo	N
4.4.4	Protection in service access areas	Anbo tek abotek Ar	Pore N
4.4.5	Protection against moving fan blades	Aupor Ar notek	Aupole
4.4.5.1	General	Aupore Aug	Note



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Notak A	mhoter And tek spotek Anbore	All Otek Albotek Al	bo
'Ur Otok	IEC 60950-1	Anbo tek	Aupore
Clause	Requirement – Test	Result - Remark	Verdict
Pupo,	Not considered to cause pain or injury. a):	tek Anbor An	Nupe
- Vupo.	Is considered to cause pain, not injury. b):	Thotak Auport Ali	N A
Jok Anbo	Considered to cause injury.	nbotek Anbote Ann	otek N
4.4.5.2	Protection for users	Anbotek Anboten An	N
, potek	Use of symbol or warning:	All botek Anbotek	Niek
4.4.5.3	Protection for service persons	ak hotek Anbotek	Anbe N
Motek	Use of symbol or warning:	le. And otek Anbotek	N
K AND	tek Auboles Antico kir potek N	hootek Anbor	K
4.5	Thermal requirements	Anbotek Anbo kek at	o ^{tet} P
4.5.1	General	Anbotek Anbort An	abotek
4.5.2	Temperature tests	anbotok Anboto	YUN PIEK
nbotek .	Normal load condition per Annex L:	sk apotek Aupote.	VUI.
4.5.3	Temperature limits for materials	(see appended table 4.5)	P
4.5.4	Touch temperature limits	(see appended table 4.5)	. P
4.5.5	Resistance to abnormal heat:	(see appended table 4.5.5	N N
DOLO - V	Notek Anbotek Anbo tek nbotek	Anbore And Otek	hpotek
4.6	Openings in enclosures	Anboten Anbo stek	" Vol. ex
4.6.1	Top and side openings	ek Anbotek Anbo	Noot
Anboten	Dimensions (mm):	otek Anbotek Anbot	»
4.6.2	Bottoms of fire enclosures	otek Anbotek Anbote	N Yes
otek Anl	Construction of the bottomm, dimensions (mm):	anbotek Anbotek Anb	- N
4.6.3	Doors or covers in fire enclosures	Anbo sek Anbotek A	N N
4.6.4	Openings in transportable equipment	Anbor Ali	Aup N
4.6.4.1	Constructional design measures	K Anbort Ant hotek	N _O
Anbore	Dimensions (mm):	otek Anbote And	- Ant
4.6.4.2	Evaluation measures for larger openings	botek Anboton Anb	ek N
4.6.4.3	Use of metallized parts	hotek Anbotek Anb	N
4.6.5	Adhesives for constructional purposes	Arthotek Anbotek A	N ^K
rotek.	Conditioning temperature (°C), time (weeks):	And atek Anbotek	Vupor
Ans	Anbotek Anbot Anbotek Anbote	Ann stek anbotek	Anbore
4.7 Amb	Resistance to fire	otek Anbo kak botek	PAnt
4.7.1	Reducing the risk of ignition and spread of flame	nbotek Anbot. An	e ^k P
otek Anb	Method 1, selection and application of components wiring and materials	(see appended table 4.7)	pote*P
inbo botek	Method 2, application of all of simulated fault condition tests	Anbotek Anbotek	AnboN



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'upore b	IEC 60950-1	Anbote And Otek	Anbotek
Clause	Requirement – Test	Result - Remark	Verdict
apole	And Anbor An	tek shotek Anbe	1000
4.7.2	Conditions for a fire enclosure	-K hotek Anboten	Pupa
4.7.2.1	Parts requiring a fire enclosure	bote. And stek Anbot	P An
4.7.2.2	Parts not requiring a fire enclosure	Anboten Anbo tek	otek N
4.7.3	Materials	Anbotek Anbos An	hotek
4.7.3.1	General	PCB:V-0	Prek
4.7.3.2	Materials for fire enclosures	(see appended table 1.5.1)	And P
4.7.3.3	Materials for components and other parts outside fire enclosures	botek Anbotek Anbotek	P ^{nbo}
4.7.3.4	Materials for components and other parts inside fire enclosures	(see appended table 1.5.1)	otek N
4.7.3.5	Materials for air filter assemblies	No air filter assemblies.	nboteN
4.7.3.6	Materials used in high-voltage components	No high-voltage components	nbN/ek

5 Anbote	ELECTRICAL REQUIREMENTS AND SIMULATE	D ABNORMAL CONDITIONS	P
5.1 Anbol	Touch current and protective conductor current	botek Anbotek Anbo	₽ P
5.1.1	General Annual A	And otek Anbotek Anb	Р
5.1.2	Configuration of equipment under test (EUT)	And tek anbotek	nbot N
5.1.2.1	Single connection to an a.c. mains supply	Anbo tek abotek	Anb N
5.1.2.2	Redundant multiple connections to an a.c. mains supply	otek Anbotek Anbotek	Noote
5.1.2.3 Annual	Simultaneous multiple connections to an a.c. mains supply	Anbotek Anbotek Anbote	NAME A
5.1.3	Test circuit	Anbotek Anbot An	-hotelP
5.1.4	Application of measuring instrument	See Annex D	Pek
5.1.5	Test procedure	k abotek Anbote	Anh P stel
5.1.6 ₂₀₀ te ³⁴	Test measurements	Lak hotek Anbotek	P
K 2001	Supply voltage (V)	264Vac	-Anbe
Ar.	Measured touch current (mA):	(see appended Table 5.1)	rex - A
Y Am	Max. Allowed touch current (mA):	(see appended Table 5.1)	potek_
nbote	Measured protective conductor current (mA):	Anbotek Anbo tek	~botek
Anbotek	Max. Allowed protective conductor current (mA):	k Anbotek Anbot	Pr. Potek
5.1.7 nbotek	Equipment with touch current exceeding 3,5 mA	tek anbotek Anbote	N
5.1.7.1 nbote	General	ek abotek Anbote	N
5.1.7.2	Simultaneous multiple connections to the supply	hbor Ambo	N PL
5.1.8	Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks	Anbotek Anbotek Ar	potek N Anbotek
5.1.8.1	Limitation of the touch current to a	Anbo. A. Sotek	AnNotes.



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'Ur	IEC 60950-1	Anb	Anbor
Clause	Requirement – Test	Result - Remark	Verdict
Anbotek	telecommunication network or to a cable distribution system	tek Anbotek Anbotek	Anbe
tek nbo	Supply voltage (V):	tek abotek Anbot	/r br,
rek	Measured touch current (mA):	Anbor An abotek An	2018E
Upo. K.	Max. Allowed touch current (mA):	Anbot An botek	Yupoter
5.1.8.2	Summation of touch currents from telecommunication networks	ek Anbotek Anbotek	AUN PO
Anbotek	a) EUT with earthed telecommunication ports:	tek abotek Anbote	N
tek Anbot	b) EUT whose telecommunication ports have no reference to protective earth	Anbotek Anbotek Anbot	otek N AT
botek An	bote Anbotek Anbo	hotek Anbote An	*ex
5.2	Electric strength	An otek Anbotek	rupor b
5.2.1	General	(see appended table 5.2)	AUL
5.2.2	Test procedure	en Anbo tek abotek	^I B/po ¹
Anbo	ek Abotek Anbote And Otek	botek Anbos ak hote	K An
5.3	Abnormal operating and fault conditions	nbotek Anbote Am	otek P
5.3.1	Protection against overload and abnormal operation	(see appended table 5.3)	nboteP
5.3.2	Motors	Anbots Ans otek	anb N iek
5.3.3	Transformers	(see appended Annex C)	Phot
5.3.4	Functional insulation:	By Short circuit	Р
5.3.5	Electromechanical components	notek Anbotek Anbo	P P
5.3.6	Audio amplifiers in ITE:	And Otek Anbotek Anb	N
5.3.7	Simulation of faults	And otek anbotek A	nbote P.K
5.3.8	Unattended equipment	Anbo tek nbotek	Aup N
5.3.9	Compliance criteria for abnormal operating and fault conditions	otek Anbotek Anbotek	₽ Poor
5.3.9.1	During the tests	stek nbotek Anbote	, PAM
5.3.9.2	After the tests	No hazards.	Р
10x P2.	hotek Anbotes And tek abotek	Anbout An sotek	hoten
6	CONNECTION TO TELECOMMUNICATION NET	WORKS	Anb N
6.1nbotek Anbotek	Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment	otek Anbotek Anbotek otek Anbotek Anbotek	Anb Anb
6.1.1	Protection from hazardous voltages	hob tek abotek Anbo	N
6.1.2	Separation of the telecommunication network from earth	Anbotek Anbotek Ar	botek N
6.1.2.1	Requirements	Not connect to telecommunication networks	Note



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IEC 60950-1	Anbote K And Lotek	Anbotek
Requirement – Test	Result - Remark	Verdict
Anbo K notek Anboth And	tak botek Anba	P
Supply voltage (V)	Clas Annotek Anbotek	Anbo
Current in the test circuit (mA)	Thore And tek upot	BK - AN
Exclusions	Anbotek Anbos Ak	notek N
	Requirement – Test Supply voltage (V) Current in the test circuit (mA)	Requirement – Test Result - Remark Supply voltage (V)

6.2	Protection of equipment users from overvoltages on telecommunication networks	Nick
6.2.1	Separation requirements	AND NEW
6.2.2	Electric strength test procedure	N
6.2.2.1	Impulse test	N Anbi
6.2.2.2	Steady-state test	otek N A
6.2.2.3	Compliance criteria	Nesoda
6.3	Protection of the telecommunication wiring system from overheating	Nek
anbotek	Max. Output current (A)	An-
, potek	Current limiting method:	Anbo

7	CONNECTION TO CABLE DISTRIBUTION SYST	EMS No Annual Property of the	N P
7.1	General	Not connect to cable distribution system	oreN oreN
7.2 Anbotek	Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment	otek Anbotek Anbotek	Anbotek
7.3	Protection of equipment users from overvoltages on the cable distribution system	Anbotek Anbotek Anbotek	K N PL
7.4	Insulation between primary circuits and cable distribution systems	Anbotek Anbotek Anb	ote N hotek
7.4.1	General	k abotek Anbote A	N tek
7.4.2	Voltage surge test	lok hotek Anbotes	PN
7.4.3	Impulse test	ote Ann hotek Anbotek	NAnbo

A	ANNEX A, TESTS FOR RESISTANCE TO HEAT	AND FIRE	bote ^N N
A.1	Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)	Anbotek Anbotek	AnboNk Anbotek
A.1.1,10010	Samples	otek Anbotek Anber	not
ek Anbo	Wall thickness (mm)	otek Anbotek Anbo	- N
A.1.2	Conditioning of samples; temperature (°C)	nbotek nbotek Anbo	N Prin
A.1.3	Mounting of samples	Anbo sek botek Ar	pote N
A.1.4	Test flame (see IEC 60695-11-3)	Anbot Ans Notek	Anbolo
Anbota	Flame A, B, C or D	Anbore And Otek	Vupotek



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'Un	IEC 60950-1	And	Anbore
Clause	Requirement – Test	Result - Remark	Verdict
Anbore.	Aug stek virotek vupor VI	dek Amoten Anbo	700
A.1.5	Test procedure	otek anbotek Anbor	N
A.1.6	Compliance criteria	upor A. Botek Aupor	N N
be by	Sample 1 burning time (s)	Anbore K Ans Orek An	otek -
pote. A	Sample 2 burning time (s)	Anboten Anbo Lek	Note ^K
anbotek	Sample 3 burning time (s)	k Anbotek Anbo	- tek
A.2 Anbotek	Flammability test for fire enclosures of movable ed not exceeding 18 kg, and for material and compor enclosures (see 4.7.3.2 and 4.7.3.4)		An N Anbor
A.2.1	Samples, material:	roo kek abotek Anbot	- Pr
LOK PA	Wall thickness (mm):	Anbor An notek ant	oter
A.2.2	Conditioning of samples; temperature (°C)	101	nboteN
A.2.3	Mounting of samples:	100	Nek.
A.2.4	Test flame (see IEC 60695-11-4)	tek anbotek Anbot	N
nbotek	Flame A, B or C:	tek abotek Anbotes	<u>Punn</u>
A.2.5	Test procedure	por An hotek Anbote	N Arr
A.2.6	Compliance criteria	Anbore K Anb	N
Por Nu	Sample 1 burning time (s)	Anhoten Ann	abotek-
Anboton	Sample 2 burning time (s)	Anbotek Anbo	abetek
Anbotell	Sample 3 burning time (s)	ek Anbotek Anbou	VOE
A.2.7	Alternative test acc. To IEC 60695-11-5, cl. 5 and 9	botek Anbotek Anbotel	N
And	Sample 1 burning time (s):	Anboten Anbo Lek ab	tek
loten An	Sample 2 burning time (s)	anbotek Anbot Air	notek-
nbotek	Sample 3 burning time (s)	abotek Anbote A	no stek
A.3	Hot flaming oil test (see 4.6.2)	ak hotek Anboten	Aug N
A.3.1	Mounting of samples	And otek anbotek	PN N
A.3.2	Test procedure	coter. And tek abotely	NAUL
A.3.3	Compliance criterion	unbotek Anbo ak his	rek N
otek Ant	ok hotek Anbotes Anb	abotek Anbote An	·otek
B _{hootek}	ANNEX B, MOTOR TESTS UNDER ABNORMAL 5.3.2)	CONDITIONS (see 4.7.2.2 and	Anbolek
B.1 ^{nb00}	General requirements	Anbor An notek	A.Note
Anbor	Position:	Inside enclosure	dna
Anbore	Manufacturer	(see appended table 1.5.1)	ek -
stek and	Type:	(see appended table 1.5.1)	- N
atek	Rated values:	(see appended table 1.5.1)	bore.
B.2	Test conditions	Anbox An wotek	Anborek
B.3	Maximum temperatures	y Aupotes, Vuss	Note



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otok	IEC 60950-1	Al. otek anboten	AUDO
Clause	Requirement – Test	Result - Remark	Verdict
B.4	Running overload test	tek Auporg Aug	Nup
B.5	Locked-rotor overload test	botek Anbote Anb	N A
hek Anb	Test duration (days):	Sotek Anbotek Anbo	IN P
notek A	Electric strength test: test voltage (V):	And stek Anbotek And	,oto <u></u>
B.6	Running overload test for d.c. motors in	Anbo kek abotek	N _e V
Anno.	secondary circuits	Anbor Al. hotek	Anbore
B.6.1	General Mark Annual Ann	ek Anbose K Anb	Np
B.6.2	Test procedure	botek Anboten Amb	N N
B.6.3	Alternative test procedure	notek Anbotek Antio	N N
B.6.4	Electric strength test; test voltage (V):	Ant stek anbotek Ant	N
B.7 Anbotek	Locked-rotor overload test for d.c. motors in secondary circuits	Anbotek Anbotek	nbotek
B.7.1	General	ek Anbotek Anbo	N ₀ 0
B.7.2 Model	Test procedure	rek abotek Anbot	N
B.7.3	Alternative test procedure	bor West Photos	N P
B.7.4	Electric strength test; test voltage (V):	Anbote Anb	N
B.8	Test for motors with capacitors	(see appended table 5.3)	npotek
B.9	Test for three-phase motors	(see appended table 5.3)	Nek
B.10	Test for series motors	sk upotek Aupo	N
Anbotek	Operating voltage (V):	tek abotek Anbote	b. c.
y abot	ek Anbote An Otek Anbotek An	bo tek abotek Anbote	P.L
C	ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3	3) both Anbrew	P
or K	Position	Anboto And Otek	hotek-
Aupore	Manufacturer	(see appended table 1.5.1)	nbotek
Anboten	Type	(see appended table 1.5.1)	- ho!
anbotek	Rated values	(see appended table 1.5.1)	bu.
k aboti	Method of protection	Inherent	-An
C.1	Overload test	(see appended table 5.3)	Р
C.2	Insulation	(see appended tables 5.2 and C2)	lbote ^K P
Anbotek	Protection from displacement of windings:	(By bobbin, triple insulation wire and insulation tape)	Anb P
Anbotek	Anbotek Anbotek Anbotek	ctek abotek Anbore	Ville
D Anbote	ANNEX D, MEASURING INSTRUMENTS FOR TO (see 5.1.4)	DUCH-CURRENT TESTS	P _M
Dof Anb	Measuring instrument	abotek Anbote And	P
D.2	Alternative measuring instrument	Ar anbotek Anbotek Ar	N
rek	Anbotek Anbosek Anbotek	And tek abotek	Auporg
EVUD	ANNEX E, TEMPERATURE RISE OF A WINDING	6 (see 1.4.13)	Note.



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Clause	Requirement – Test	Result - Remark	Verdict
Clause	Requirement – Test	Result - Remark	verdici
Public	IK Aborek Anbort All Meek A	upotek Aupo kek abotek	Anb
F Anbo	ANNEX F, MEASUREMENT OF CLEARANCES	S AND CREEPAGE DISTANCES	P P
tek Anb	(see 2.10 and Annex G)	hotek Anbott	rek
wotek p	Anbote, August Apotek Vipote	An Arek Apotek An	00-
G	ANNEX G, ALTERNATIVE METHOD FOR DET CLEARANCES	ERMINING MINIMUM	xnb ^{ot} N
G.1 nbotek	Clearances	ek spotek Anbote	Ann
G.1.1	General	nbotek Anbotek	N
G.1.2	Summary of the procedure for determining minimum clearances	Arbotek Anbotek Anbot	N A
G.2	Determination of mains transient voltage (V)	An Sotek Anboten An	N
G.2.1	AC mains supply	And otek Anbotek	rupo N
G.2.2	Earthed d.c. mains supplies	Anto tek abotek	AND
G.2.3	Unearthed d.c. mains supplies	hotek Anbour	Noo
G.2.4	Battery operation	Dotek Anbore Am	· N
G.3	Determination of telecommunication network transient voltage (V)	Anbotek Anbotek Ant	otek N
G.4	Determination of required withstand voltage (V)	Anbote K An	nboteN
G.4.1	Mains transients and internal repetitive peaks	ek Anbore And stek	nbNek
G.4.2	Transients from telecommunication networks	Totak Aupoten Aupo	N
G.4.3	Combination of transients	otek nbotek Anbo	N
G.4.4	Transients from cable distribution systems	And tek abotek Anbote	N
G.5	Measurement of transient voltages (V)	Anbox Ak hotek Anb	N
or K	a) Transients from a mains supply	Anbote K Am	nboteN
Aupore	For an a.c. mains supply	Anbotes Anbo	No No K
Anboten	For a d.c. mains supply	otek Anbotek Anbo	Not
anbotek	b) Transients from a telecommunication network	Cotek anbotek Anbot	N
G.6	Determination of minimum clearances	Ant tek abotek Anbote	N _{bru}
. ok	hotek Anbore And tek nbotek	Anbot An Motek Anbo	ter.
H K	ANNEX H, IONIZING RADIATION (see 4.3.13)	Aupole, Yung	N atotek
'upote.	And otek anbotek Anboot An hote	K Anbotek Anbo	abotek
Anbotek	ANNEX J, TABLE OF ELECTROCHEMICAL PO	OTENTIALS (see 2.6.5.6)	Not
anbotek	Metal(s) used	tek abotek Anbote	Vun
k -100%	ek Anboto And stek anbotek	Anbotek Anbotek	Ant
K .	ANNEX K, THERMAL CONTROLS (see 1.5.3 a	nd 5.3.8)	N
K.1	Making and breaking capacity	No thermostat and	otek N
'upofek	Abotek Anbotek Anboten Anbote	temperatrue limiter used for thermal control circuit	Anbotek
K.2	Thermostat reliability; operating voltage (V)	otol anbotto Ame	.Note



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'up	IEC 60950-1	Anbo Ar Ar Otek	Aupoter
Clause	Requirement – Test	Result - Remark	Verdict
Aupore	And Andrew Anbor An	dek Anboten Anbo	(-1
K.3	Thermostat endurance test; operating voltage (V)	nbotek Anbotek Anbote	No.
K.4 And	Temperature limiter endurance; operating voltage (V)	ge Anbotek Anbotek Anb	inbotek N
K.5	Thermal cut-out reliability	Aupota, Aug	Nodn
K.6	Stability of operation	tek Anbotes Anbo	Nice
Anbote	Anbotek Anbotek Am	stek unbotek Anbot	Pr.
L Anbote	ANNEX L, NORMAL LOAD CONDITIONS FOR BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2		- N
L.1 And	Typewriters	Anbotek Anbote Ant	Hotek N
L.2	Adding machines and cash registers	Anbotek Anbote A	N
L.3 otek	Erasers	tek abotek Anbotes	Nek
L.4 potek	Pencil sharpeners	ak abotek Anboten	Am N
L.5 bote	Duplicators and copy machines	100 Anbotek Anbotek	N
L.6	Motor-operated files	Amote K Am Lotek Ambo	N A
L.7	Other business equipment	Aupores Auporek	ibotek N
pote P	no tek abotek Anbou At Atek	Anbores Anb	hotek
M	ANNEX M, CRITERIA FOR TELEPHONE RING	GING SIGNALS (see 2.3.1)	Nex
M.1	Introduction	otek nbotek Anbote	N
M.2	Method A	tek abotek Anbote	N
M.3	Method B	Anyor Amborek Anbo	NAM
M.3.1	Ringing signal	Anbore An hotek Ar	N N
M.3.1.1	Frequency (Hz)	Anbote Am notek	A hotek
M.3.1.2	Voltage (V)	ek Anbore And Otek	Anbetek.
M.3.1.3	Cadence; time (s), voltage (V)	otek Anboter Anbo	nbot
M.3.1.4	Single fault current (mA)	otek Anbotek Anbo	e)4 -
M.3.2	Tripping device and monitoring voltage	Ari otek Anbotek Anbo	N
M.3.2.1	Conditions for use of a tripping device or a monitoring voltage	Anbotek Anbotek An	, bote VN
M.3.2.2	Tripping device	k Anbotek Anbou	N/K
M.3.2.3	Monitoring voltage (V)	tek nbotek Anbote	N
abotek	Anbore K Anti-otek Anbotek Anti	tek abotek Anboten	Aub
N Anbol	ANNEX N, IMPULSE TEST GENERATORS (se 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)	ee 1.5.7.2, 1.5.7.3, 2.10.3.9,	N _W
		100	
N.1 A	ITU-T impulse test generators	botek Anbot An	ate KN



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'Up	IEC 60950-1	Anbo	Anbote
Clause	Requirement – Test	Result - Remark	Verdic
Anbore.	Ann Alex Districter Anbot An	otek Ambotek Ambo	7/0
P	ANNEX P, NORMATIVE REFERENCES	otek Anbotek Anbot	-Arr
Tek Vi	Botek Aupore An Notak Anboten	Anbo Anbotek Anbo	P
Q	ANNEX Q, Voltage dependent resistors (VDRs) (L. K. KOLO, DA	boter N
ypo.	- Preferred climatic categories	All.	'Aroda's
Anbore	- Maximum continuous voltage	VII.	Ngel
Anbote	Body of the VDR Test according to IEC60695-11-5	olek Anbotek Anbotek	Anbe
tek Anb	Body of the VDR. Flammability class of material (min V-1)	Whotek Anbotek Anbot	ek N
tek	anbotek Anbotek Anbotek	Anbo tek abotek An	pote
R Anbotek	ANNEX R, EXAMPLES OF REQUIREMENTS FO PROGRAMMES	OR QUALITY CONTROL	knbotek
R.1 Anbotek	Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)	ofek Anbotek Anbotek	Nabo
R.2	Reduced clearances (see 2.10.3)	nbotek Anbos A. hote	N N
SK WILL	K hotek Anbore Anb	abotek Anbote Ant	otek
Stek	ANNEX S, PROCEDURE FOR IMPULSE TESTII	NG (see 6.2.2.3)	N
S.1	Test equipment	Anbotek Anbotek	N _o K
S.2	Test procedure	And stek anbotek	Anbot
S.3	Examples of waveforms during impulse testing	Augo tek upotek	Noo
Anbo	rek hotek Anbote Anbotek	upoter Anno Lek hote	K An
T And	ANNEX T, GUIDANCE ON PROTECTION AGAIR (see 1.1.2)	NST INGRESS OF WATER	otek P
POK I	Shotek Anbotek Anbotek	Anbor Al.	Aupoten
Unbotek	ANNEX U, INSULATED WINDING WIRES FOR INSULATION (see 2.10.5.4)	USE WITHOUT INTERLEAVED	Aup N
abote	Anbore Ann otek Anbores Anb	(see appended table 1.5.1)	Pup.
K 200	tek Anbotes And Stek Anbotes A.	upor Ambotek Anbote	Pu,
V	ANNEX V, AC POWER DISTRIBUTION SYSTEM	//S (see 1.6.1)	Copy
V.1	Introduction	Anbote And Stek	Notek P
V.2	TN power distribution systems	Anboten Anbo potek	Anbopek
Anbore	An otek Anbotek Anbo Lek bo	tek Aupores Yung Stek	nbot
W Anbotes	ANNEX W, SUMMATION OF TOUCH CURRENT	TStek Anbotek Anbo	N
W.1 NO	Touch current from electronic circuits	otek anbotek Anbote	N N
W.1.1	Floating circuits	Anbotek Anbotek Anbo	N
W.1.2	Earthed circuits	Anbo Lek Thotek A.	N.
W.2	Interconnection of several equipments	Anbor An work	Anbotek
W.2.1	Isolation	et Annotes Ann	AMOTO



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	IEC 60950-1	Aupor
Clause	Requirement – Test Result - Remark	Verdict
W 2 2	Common vature isolated from conte	- nob
W.2.2	Common return, isolated from earth	N
W.2.3	Common return, connected to protective earth	NA
Yek	Botek Auport Ann Ostek Anbotek Anbo A. Botek Ar	pote.
Xotek	ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)	anbot P
X.1	Determination of maximum input current	Pub.
X.2	Overload test procedure	<i>B</i> _{√p₀}
Arra	stek Anbotek Anbotek Anbotek Anbotek Anbotek	ek Ar
Y And	ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)	notek N
Y.1	Test apparatus	N
Y.2	Mounting of test samples:	Nex
Y.3	Carbon-arc light-exposure apparatus:	Amba N
Y.4	Xenon-arc light exposure apparatus:	N
- Aur	tek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	er An
Z	ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)	potek P
poter b	Thek abotek Anbote K anbotek Anbotek Anbotek Anbotek	botek
AA	ANNEX AA, MANDREL TEST (see 2.10.5.8)	Nek
		10 N
nbotek	Anton An Antone Antone Antone Antone Antone Antone	Aupple of
BB abote	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Aupot
Anbotek	ANNEX BB, CHANGES IN THE SECOND EDITION	Anbot An
BB Anbotek	ANNEX BB, CHANGES IN THE SECOND EDITION	Antorio N
BB CC	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbot An
BB CC CC.1	ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) current limiters General	Anbot
BB CC CC.1 CC.2	ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) current limiters	Anbot
BB CC CC.1 CC.2	ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) current limiters General Test program 1	N N N
BB CC CC.1 CC.2 CC.3	ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) current limiters General Test program 1	N bote N
BB CC CC.1 CC.2 CC.3	ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) current limiters General Test program 1	N N N
BB CC CC.1 CC.2 CC.3 DD DD.1	ANNEX CC, Evaluation of integrated circuit (IC) current limiters General Test program 1	N N N
BB CC CC.1 CC.2	ANNEX CC, Evaluation of integrated circuit (IC) current limiters General Test program 1	N N N N N N N N N
BB CC CC.1 CC.2 CC.3 DD DD.1 DD.2 DD.3	ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) current limiters General Test program 1	N N N N N N N N N
BB CC CC.1 CC.2 CC.3 DD DD.1 DD.2	ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) current limiters General Test program 1	N N N N N N N N N
BB CC CC.1 CC.2 CC.3 DD DD.1 DD.2 DD.3	ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) current limiters General Test program 1	N N N N N N N N N
DD DD.1 DD.2 DD.3 DD.4	ANNEX CC, Evaluation of integrated circuit (IC) current limiters General Test program 1	N N N N N N N N N
BB CC CC.1 CC.2 CC.3 DD DD.1 DD.2 DD.3 DD.4 EE	ANNEX BB, CHANGES IN THE SECOND EDITION ANNEX CC, Evaluation of integrated circuit (IC) current limiters General Test program 1	N N N N N N N N N



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"upor	IEC 60950-1	Anbote And Otek	Anbotek
Clause	Requirement – Test	Result - Remark	Verdict
Rupote.	And Anbot An	ok abover Anb	- ~0
	Information of user instructions, maintenance and/or servicing instructions	botek Anbotek Anbote	N _{on}
EĔ.3 Anbo	Inadvertent reactivation test	botek Anbote And	TOK N
EE.4	Disconnection of power to hazardous moving parts	Anbotek Anboten Ank	N
Anboro	Use of markings or symbols	Anbotes And And	Nrek Nek
EE.5	Protection against hazardous moving parts	rek Anbotek Anbo	N
Anbotek	Test with test finger (Figure 2A)	otek Anbotek Anbote	N
ek abo	Test with wedge probe (Figure EE1 and EE2):	botek Anbote	N PZ



Aupotek	Anbotek Anbotek	EN 60950-1	Anbotek Anbotek	nbotek
Clause	Requirement – Test	Anbore An	Result - Remark	Verdict

ATTACHMENT TO TEST REPORT IEC 60950-1 EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES

Information technology equipment – Safety –

Part 1: General requirements

Differences according to.....: IEC 60950-1:2005+A1:2009+A2:2013

Attachment Form No...... EU_GD_IEC60950_1E

Master Attachment...... Date 2013-09

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IEC 60950-1:2005+A1:2009+A2:2013

Clause	Requirement + Test		R	Result - Rem	ark	Verdict
botek A	Clauses, subclauses, IEC60950-1 and it's a			are addition	al to those in	anbotek
Contents	Add the following ann	exes: Market	A. Stek	abote	Anbo	Rek
	Annex ZA (normative		ormative reference	ces to intern	ational	And
	hotek Anbo	Dr.	ublications with th			Anbore
	And	-46,	ublications	Tell correspo	onding European	
	Annoy 7D (normative	37		anditions.		Ani
	Annex ZB (normative	V 11/2	pecial national co		'Wpo K	Jek .
	Annex ZD (informative	200	EC and CENELEC	C code desig	gnations for) V
(A2:2013)	sotek Anbore	And	exible cords			, abote,
General	Delete all the "country	" notes in the	reference docum	ent (IFC 60	950-1-2005)	Anb Pek
	according to the follow		Anbo	.cpgc co	nbole	AUDO
	1.4.8 Note 2	1.5.1	Note 2 & 3	1.5.7.1	Note	Anbote
	1.5.8 Note 2	1.5.9.4	Note	1.7.2.1		Y
	2.2.3 Note	2.2.4	Note More	2.3.2	Note	Aup
	2.3.2.1 Note 2	2.3.4	Note 2	2.6.3.3		tek .
	2.7.1 Note	2.10.3.2	Note 2		3 Note 3) · · · · · · · · · · · · · · · · · · ·
	3.2.1.1 Note	3.2.4	Note 3.	2.5.1	Note 2	boten
	4.3.6 Note 1 & 2	4.7	Note 4	4.7.2.2	Note	x stek
	4.7.3.1 Note 2 6 Note 2 & 5	5.1.7.1	Note 3 & 4	5.3.7	Note 1	Anbo
	6 Note 2 & 5 6.2.2 Note	6.1.2.1 6.2.2.1	Note 2 Note 2	6.1.2.2 6.2.2.2	Note Note	abote
	7.1 Note 3	7.2	Note 2	7.3	Note 1 & 2	bu.
	G.2.1 Note 2	Annex H	Note 2	And And	tek raz	Anbe
General	Delete all the "country 1:2005/A1:2010) acco	" notes in the	reference docum	nent (IEC 60	950-	olek P
A1:2010)	1.2000// 1.2010/ 4000					
(A1:2010)	1.5.7.1 Note	6.1.2.1	Note 2			poter

Shenzhen Anbotek Compliance Laboratory Limited Page 32 of 60 Report No.: SZAWW180912003-02S

Wr.	notek Anbot Air En	l 60950-1	And	anbore
Clause	Requirement – Test	ak hote	Result - Remark	Verdict
poter	Anbot Anbot	And	tok botek Anbo	ber.
General	Delete all the "country" notes in the		ument (IEC 60950-	Sup.
(A2:2013)	1:2005/A2:2013) according to the fo	- k O-		notek A
	100	0.3.1 Note 2	notek Anbote An	LOK.
*ek	6.2.2. Note	Anbore.	And tek shotek	Anbor
	* Note of secretary: Text of Commor	n Modification	remains unchanged.	abotek
VUPOJEK	Anbore Anbore	And tel	K Abotek Anbot	A. Colok
1.1.1.00 ^{to}	Replace the text of NOTE 3 by the fo	ollowing	K ingles Antoles	P
(A1:2010)	NOTE 3 The requirements of EN 60065 may equipment. See IEC Guide 112, Guide on the	also be used to n		ia Anbo
1.3.Z1	60065 applies.	abotek A	abo k Ari	N N
INO.ZI AND	Add the following subclause:	A. Otek	Anboten Anbo Ak	rotek N
	1.3.Z1 Exposure to excessive sound	· pc	hotek Anbote	Anv
	The apparatus shall be so designed		And botek	Auporg
	constructed as to present no danger for its intended purpose, either in no		Aupor Aur	abotek
	operating conditions or under fault c		tek abotek Anbot	K 200
	particularly providing protection agai	inst exposure	Air Stek Anbote	Aupo
	to excessive sound pressures from h	neadphones	botek Anbo K	otek an
	or earphones.	Aupo. W	otek Anboten Ant	.ok
	NOTE Z1 A new method of measurement in EN 50332-1, Sound system equipmer		Anbo K hotek	Aupore
	Headphones and earphones associated		Anbote And	botek
	audio equipment - Maximum sound pres		botek Anbote	by.
	measurement methodology and limit cor Part 1: General method for "one package		Ant tek abotek	Anbo
	and in EN 50332-2, Sound system equip		tak Anbor An	K anbot
	Headphones and earphones associated		stek spotek Anbo	- V
	audio equipment - Maximum sound pres measurement methodology and limit cor		ibo k A. Stek anb	ote An
	Part 2: Guidelines to associate sets with		Anboter Anb	botek
otek Ant	coming from different manufacturers.	Anbo	hotek Anbore A	'Ur
(A12:2011)	In EN 60950-1:2006/A12:2011		And tek	Noodua
	Delete the addition of 1.3.Z1 / EN 60	0950-1:2006	Anbore An	abotek
	Delete the definition of 1.2.3.Z1 / EN	1 60950-	ek abotek Anbo	by.
Kotek	1:2006/A1:2010	tek Anbo.	A. tek pote	Anb
1.5.1	Add the following NOTE:		hotek Anbo ok A	tek Nant
	NOTE Z1 The use of certain substances		hotek Anbore And	1ek
	and electronic equipment is restricted wi see Directive 2002/95/EC	itnin the EU:	kni tek abotek A	upo
(Added info*)	New Directive 2011/65/11 *		Anbor Ant	hotek
1.7.2.1	In addition, for a PORTABLE SOUND		abotek Anbo	AnboN's
(A1:2010)	the instructions shall include a warning		A. atek anbotek	Anbo
	excessive sound pressure from earpl		er Anbo K K sotek	Anbore
1.7.2.1	headphones can cause hearing loss.	N. Pr	otek Anbote Anb	tek Nab
(A12:2011)	In EN 60950-1:2006/A12:2011	Ibote Ani	lek hotek Anbo	A.M.
Vok VIII.	Delete NOTE Z1 and the addition fo Sound System.	r Portable	Anbote And Totek	'porek
	Add the following clause and annex	to the	Anbote Anb	potek
	existing standard and amendments.	Anbo	potek Anbote	An
		100	re from personal music	1-00



Zx.1 General This sub-clause specifies requirements for protection against excessive sound pressure from personal music players that are closely coupled to the ear. It also specifies requirements for earphones and headphones intended for use with personal music players. A personal music players. A personal music players. A personal music players. A personal music players a portable equipment for personal use, that: is designed to allow the user to listen to recorded or broadcast sound or video, and primarily users headphones or earphones that can be worn in or on or around the ear; and allows the user to walk around while in use. NOTE 1 Examples are hand-held or body-worn portable CD players, MP3 audio players, mobile phones with MP3 type features, PDA's or similar equipment. A personal music player and earphones or headphones intended to be used with personal music players shall comply with the requirements of this sub-clause. The requirements in this sub-clause are valid for music or video mode only. The requirements do not apply: while the personal music player is connected to an external amplifier; or while the headphone or earphones are not used. NOTE 2 An external amplifier is an amplifier which is not part of the personal music player or the listening device, but which is intended to play the music as a standalone music player. The requirements do not apply to: hearing aid equipment and professional equipment. NOTE 3 Professional equipment is equipment sold through special sale s channels. All products sold through pospecial sale s channels. All products sold through pospecial sale s channels are provided to the professional equipment and professional equipment. NOTE 3 Professional equipment is equipment sold through normal electronics stores are considered not to professional equipment. NOTE 3 Professional equipment is equipment sold through proper sold provided to the extended to other technologies. For equipment which is clearly designed or intended for use by young children, the limits	Lak-	EN 6095	0-1	Anbo A Motok	Anboten
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that within a few years it will no longer exist. This exemption will not be extended to other technologies. For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply. Zx.2 Equipment requirements				otek Anbore Anti	ek . Iv
exemption will not be extended to other technologies. For equipment which is clearly designed or intended for use by young children, the limits of EN 71-1 apply. Zx.2 Equipment requirements		that within a few years it will no longer exist. The	nis 👫	ok hotek Anbo	V.
intended for use by young children, the limits of EN 71-1 apply. Zx.2 Equipment requirements				inbote, Aug	holek
EN 71-1 apply. Zx.2 Equipment requirements N				otek Anboten An	No.
Zx.2 Equipment requirements			nits of	Anbo K sotek	Arbote
	Office	10 K	No.k	upote. Anb	notek.
	notek		Anbo	h nbote	Ant N



ause	Requirement – Test	Result - Remark	Verdic
ause	requirement – rest	Tresuit - Tremain	Verdic
Aupo,	complies with the following:	Schok Auport Ann	101
		And K neek Ar	Pur Vin
	equipment provided as a package (person		Yaz
	music player with its listening device), wh	ere the	Aupo.
	acoustic output L _{Aeq,T} , is ≤ 85 dBA measu		stek
	while playing the fixed "programme simula	ation	Anbo
	noise" as described in EN 50332-1; and a	stek spore And	botek
	personal music player provided with an a	nalogue	AUD
	electrical output socket for a listening dev	- W	ek spote
	where the electrical output is ≤ 27 mV me		Arra
	as described in EN 50332-2, while playing		do Not
	fixed "programme simulation noise" as de		por bi
		Scribed	Net K
	in EN 50332-1.	All ok hotek	Anbo
	NOTE 1 Wherever the term acoustic acoustic		otek
	used in this clause, the 30 s A-weighted equip	ment	Ant
	sound pressure level L _{Aeq,T} , is meant.	otek Anbore An	hotek
	See also Zx.5 and Annex Zx.	upper tek upote	Ans
	All other equipment shall:	notek Anbo	ek abote
	a) protect the user from unintentional aco		DI.
	outputs exceeding those mentioned abov	e; and	tek np
	b) have a standard acoustic output level r		bo. br.
	exceeding those mentioned above, and	Anb Anb	rek
	automatically return to an output level not	W. Poter	Anbo
	exceeding those mentioned above when		botek
		ile kek abote.	And
	power is switched off; and	otek Vupore VIII.	hotek
	c) provide a means to actively inform the	user of	b'ur
	the increased sound pressure when the	notek Anbo	K pote,
	equipment is operated with an acoustic or	utput	All
	exceeding those mentioned above. Any n	neans	rek noo
	used shall be acknowledged by the user to	pefore	Do.
	activating a mode of operation which allow		del
	an acoustic output exceeding those ment		Anbo
	above. The acknowledgement does not n		POTEK
			And
	be repeated more than once every 20 h o	otek Anbore An	hotek
	cumulative listening time; and	upo kek upote	DUP.
	NOTE 2 Examples of means include visual or		K pole
	signals. Action from the user is always require		Ville
	NOTE 3 The 20 h listening time is the accumu		tek nbo
	listening time, independent how often and how	long the	Or.
	personal music player has been switched off.	Noter Anbo	stell or
	d) have a warning as specified in Zx.3; ar	d An botek	Aupo N.
	e) not exceed the following:	ek above And	CLEK
	1) equipment provided as a package (play	er with	AMD
	Its listening device), the acoustic output s		hotek
	100 dBA measured while playing the fixed		V.
	"programme simulation noise" described i		k boten
		Arm atek abote	Ville
	50332-1; and	noter Anbo Air	tek abot
	2) a personal music player provided with		b.,
	analogue electrical output socket for a list	ening	otek . n
	device, the electrical output shall be ≤ 150) mV A moter	Wp.
	measured as described in EN 50332-2, w	hile hote And	holek
	playing the fixed "programme simulation r		Anbo
	described in EN 50332-1.	otek anbore And	-otek
	For music where the average sound pres	sure kek spoten	AND
	(long term $L_{Aeq,T}$) measured over the dura		hotek
			Ans
	the song is lower than the average production		You You
	the programme simulation noise, the warr	ning av	Vision



abotek P	hboten Anbe	EN 60950-1	ek Ar	hotek Anbe	otek An	bostek
Clause	Requirement – Test	LIV 00330-1		esult - Remark	nbotek	Verdict
hotek	Aupole, Yun	ok spotok Ar	pote	All. otek	Vuporen	RUDO
ek Anbotek	sound pressure of the slimit of 85 dBA. In this	ven as long as the aver song is below the basic case T becomes the		ek Anbotek	Anbotek	ak Anbot
rupotek Vi	duration of the song. NOTE 4 Classical music sound pressure (long terr than the average progran	n LAeq,T) which is much low	ver An			anbotek Knbotek
Anbotek Anbotek	Therefore, if the player is and compare it with the p the warning does not nee	capable to analyse the so rogramme simulation noised to be given as long as the first the song is below the base.	e, ne			Anbotek
otek Anbore	limit of 85 dBA. For example, if the player simulation noise to 85 dB	is set with the programmon, but the average music	e Arboti			otek Anb
nbotek Ar	give a warning or ask an the average sound level of basic limit of 85 dBA.	5 dBA, there is no need to acknowledgement as long of the song is not above th	as	Anbotek Anbotek An	potek Yu	inbotek k
Anbotek	on the packaging, or in	laced on the equipment				Annote
otek Anbot	and shall consist of the the symbol of Figure 1 mm; and the following "To prevent possible he	with a minimum height wording, or similar:	of 5			otek Ann
Anbotek A.	listen at high volume le		otek l			nboten Anbotek
Anbotek	Anbotek Anbotek	Δ	nbotek Notek			Anbote
lek Anbot	(11)	୬\	Anb			yek b
Anbotek		label (IEC 60417-6044	I) P			Anbotek
Anbotek	through the equipment the user is asked to ac	warning may be given display during use, who knowledge activation of				Anbore
lek Aupo	higher level.	r listening devices (he	adaba	nos and carphon	Pili.	rex-
botek Ant	Zx.4.1 Wired listening input	g devices with analogu	ie	nes and earphon	otek A	ipoteWN
Anbotek Anbotek	input voltage of the fixe noise" described in EN	essure output $L_{Aeq,T}$, the ed "programme simulation 50332-2 shall be \geq 75 plicable in any mode where	on mV.			Anbotek
ak Anbote	the headphones can of	perate (active or passive setting (for example but	e), (e			ek Anbo
botek Anb	NOTE The values of 94 dBA 85dBA – 27 mV and 100 dB/	. – 75 mV correspond with A – 150 mV.	P.	hbotek Anbote	otek Ans	botek
Anbotek	Zx.4.2 Wired listening input With any playing device	Aupo. K	potek	Anbotek A	nbotek	Anbotek Anbotek



hpor	EN 60950-1	Anbote Ant	nbotek
Clause	Requirement – Test	Result - Remark	Verdict
poter	Anbott Anbott Anbott	ak hotek Anbo	Pr.
VI.	"programme simulation noise" described in EN	Ans Note	Anb
	50332-1 (and respecting the digital interface	stek spore And	ν.
	standards, where a digital interface standard	Apo A. Abr	P. S.
	exists that specifies the equivalent acoustic level),	otek Anbors Air	You
	the acoustic output L _{Aeq,T} of the listening device	Anbe	abore
	shall be ≤ 100 dBA.	botek Anbo	tek
	This requirement is applicable in any mode where	Ant Sotek	Yupo.
	the headphones can operate, including any	And And	"Ofe
	available setting (for example built-in volume level	A. tek above.	AMP
	control, additional sound feature like equalization,	lek Aupo W. Fek	de
		K otek Anbore	VI
	etc.).	hotek Anbo	Yek.
	NOTE As a second of a size of light for a decision with distribution of	ok hotek Anbo	P
	NOTE An example of a wired listening device with digital input is a USB headphone.	abote And	otek
494	Zx.4.3 Wireless listening devices	Al. Poter At	N
		Anbore Am	Noted
	In wireless mode:	stek anbore	YUL
	with any playing and transmitting device playing	Anbo	apore
	the fixed programme simulation noise described	ok hotek Anbo	br.
	in EN 50332-1; and	ke. And k solek	anbo
	respecting the wireless transmission standards,	tek shoter Anb	
	where an air interface standard exists that	por All	Gr P.
	specifies the equivalent acoustic level; and with	stek subore And	. No
	volume and sound settings in the listening device	Ambo A. tek	poter
	(for example built-in volume level control,	totek Anbot An	No.
	additional sound feature like equalization, etc.)	And	upor
	set to the combination of positions that maximize	boten Anbo	-tek
	the measured acoustic output for the	Arr. Potek	Aupo
	abovementioned programme simulation noise,	ek above And	,
	the acoustic output LAeq,T of the listening device	Ar. Lak aboten	Anbe
	shall be ≤ 100 dBA. NOTE An example of a wireless	otek Anbor Air	10
		stek anboi	A
PUL	listening device is a Bluetooth headphone.	Poter Pub	N Yes
	Zx.5 Measurement methods	Ann ok botek An	N
	Measurements shall be made in accordance with	anbore Ans	Lotek
	EN 50332-1 or EN 50332-2 as applicable.	A. Abote.	AUR
	Unless stated otherwise, the time interval 1 shall	Anbor Ar	poter
	be 30 s.	Crek Anbore	Di.
	otek Anbore An tak thok	Anbo Arek	nbo
	NOTE Test method for wireless equipment provided without	ok hotek Anbo	be
PI.	listening device should be defined.	Ofe And	N. DAY
2.7.1 _{nabo}	Replace the subclause as follows:	stek abote And	P
	Basic requirements	Mupo A. Lok	o ferr
	To protect against excessive current, short-	notek Anbor An	Yor
		And	Mporo
	circuits and earth faults in PRIMARY CIRCUITS,	boten Anbu	- Kek
	protective devices shall be included either as	An ok wotek	Anbor
	integral parts of the equipment or as parts of the	K abole And	
	building installation, subject to the following, a), b)	p. sek aboten	ANDO
	and c):	otek Anbor All	K
	a) except as detailed in b) and c), protective	atek anbore	VI
	devices necessary to comply with the	boten Anbo	Nek Yes
	requirements of 5.3 shall be included as parts of	in ok wotek and	0
	the equipment;	abote And	otek
	MOL WILL	All hotek	TOO
	b) for components in series with the mains input	anbote And	"Otek
	to the equipment such as the supply cord,	A. Aboter	AUD
	appliance coupler, r.f.i. filter and switch, short-	Anbor An	you.
	circuit and earth fault protection may be provided	tok bolo	VUL



potek A	EN 60950-1	And Anbatek Ar	bos
Clause	Requirement – Test	Result - Remark	Verdict
Pupofek	by protective devices in the building installation;	Tok Anbotek Anbotek	Aupore
Anbotek Anbotek	c) it is permitted for PLUGGABLE EQUIPMENT TYPE B or PERMANENTLY CONNECTED EQUIPMENT, to rely on dedicated overcurrent and short-circuit protection in the building installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instructions.	Anbotek	otek Anbotek Anbotek
atek Anbotek	If reliance is placed on protection in the building installation, the installation instructions shall so state, except that for PLUGGABLE EQUIPMENT TYPE A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet.	botek Anbotek Anbotek Anbotek Anbotek Anbot	otek Anbotek
2.7.2	This subclause has been declared 'void'.	Anbotek Anbote	Marek
3.2.3	Delete the NOTE in Table 3A, and delete also in this table the conduit sizes in parentheses.	ek Anbotek Anbote	AnN
3.2.5.1 Annot	Replace "60245 IEC 53" by "H05 RR-F"; "60227 IEC 52" by "H03 VV-F or H03 VVH2-F"; "60227 IEC 53" by "H05 VV-F or H05 VVH2-F2". In Table 3B, replace the first four lines by the following:	Anbotek	N Anbotek Anbotek Anbotek
Anbotek Anbotek Anbote Anbote	Up to and including 6 0,75 a) Over 6 up to and including 10 (0,75) b) 1,0 Over 10 up to and including 16 (1,0) c) 1,5 In the conditions applicable to Table 3B delete the words "in some countries" in condition a). In NOTE 1, applicable to Table 3B, delete the second	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbote	Anbotek Anbo
3.3.4	sentence. In Table 3D, delete the fourth line: conductor	Anbotek Anbotek	Anb Nek
Anbotek Anbotek	sizes for 10 to 13 A, and replace with the following: Over 10 up to and including 16 1,5 to 2,5 1,5 to 4	otek Anbotek Anbotek	Anbotek Anbo
10400	Delete the fifth line: conductor sizes for 13 to 16 A	inpoter. And hotek And	orek An
4.3.13.6 (A1:2010)	Replace the existing NOTE by the following: NOTE Z1 Attention is drawn to: 1999/519/EC: Council Recommendation on the limitation of exposure of the general public to electromagnetic fields 0 Hz to 300 GHz, and 2006/25/EC: Directive on the minimum health and	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
botek Anbote	safety requirements regarding the exposure of workers to risks arising from physical agents (artifical optical radiation).	abotek Anbotek Anbotek Anbotek	stek And
Anbotek Anbotek	Standards taking into account mentioned Recommendation and Directive which demonstrate compliance with the applicable EU Directive are indicated in the OJEC.	Anbotek Anbotek Anbotek	Anbotek Anbotek



Yupos b	EN 60950-1	nbotek
Clause	Requirement – Test Result - Remark	Verdict
Notek.	Anno Atek Anbore Anno Ak hotek Anbor	P.
Annex H	Replace the last paragraph of this annex by: At any point 10 cm from the surface of the OPERATOR ACCESS AREA, the dose rate shall not exceed 1 µSv/h (0,1 mR/h) (see NOTE). Account is taken of the background level.	Aupotek Hupotek
	Replace the notes as follows: NOTE These values appear in Directive 96/29/Euratom. Delete NOTE 2.	Anbotek Anbotek
Bibliography	Additional EN standards.	16K - N
stek Anbo	te. Anbotek Anbotek Anbotek Anbotek	TUBE TEK
ZAek	NORMATIVE REFERENCES TO INTERNATIONAL PUBLICATIONS WITH THEIR CORRESPONDING EUROPEAN PUBLICATIONS	Anv

Anbotek Anbotek	1.1 ZB ANNEX (normat		Anbote ^V
Clause	Requirement + Test	Result - Remark	Verdict
1.2.4.1	In Denmark , certain types of Class I appliances (see 3.2.1.1) may be provided with a plug not establishing earthing conditions when inserted into Danish socket-outlets.	Anbotek Anbotek	nboteN Anbotek
1.2.13.14	In Norway and Sweden , for requirements see 1.7.2.1 and 7.3 of this annex.	otek Anbotek Anbotek	N N
1.5.7.1	In Finland, Norway and Sweden , resistors bridging BASIC INSULATION in CLASS I PLUGGABLE EQUIPMENT TYPE A must comply with the requirements in 1.5.7.1. In addition when a single resistor is used, the resistor must withstand the resistor test in 1.5.7.2.	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	nbotek Anbotek
1.5.8	In Norway , due to the IT power system used (see annex V, Figure V.7), capacitors are required to be rated for the applicable line-to-line voltage (230 V).	otek Anbotek Anbotek	Notek Anbotek
1.5.9.4	In Finland , Norway and Sweden , the third dashed sentence is applicable only to equipment as defined in 6.1.2.2 of this annex.	Anbotek Anbotek Anb	botek N Ar
1.7.2.1 Anbotek Anbotek Anbotek Anbotek	In Finland, Norway and Sweden, CLASS I PLUGGABLE EQUIPMENT TYPE A intended for connection to other equipment or a network shall, if safety relies on connection to protective earth or if surge suppressors are connected between the network terminals and accessible parts, have a marking stating that the equipment must be connected to an earthed mains socket-outlet. The marking text in the applicable countries shall be as follows: In Finland: "Laite on liitettävä suojakoskettimilla"	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek Anbotek
Aupotek	varustettuun pistorasiaan"	Anbotek Anbotek	Anboten



P- 1-	EN 609	50-1	Anbo. A. Sotek	Anboten
lause	Requirement – Test	A. hotel	Result - Remark	Verdic
Aupoter.	And Anbore	Ville	tek abotek Anbo	N N
	In Norway : "Apparatet må tilkoples jorde stikkontakt"	Anbe	K stek anbore	AUS
	A Vie. VUD	ek	boten Anbe	otek p
	In Sweden : "Apparaten skall anslutas till	jordat	otek anboter And	. V
	uttag"		Anbo K A otek	upoto.
	L Nek Rotek Ambor An	Yele	anboten Anbo	notek
	In Norway and Sweden , the screen of the distribution system is normally not earthe		A. otek anbote.	AUD
inc rok	entrance of the building and there is norm		And K hotek	Anbore
7.2.1	equipotential bonding system within the b		lek Anbotes Anb	6 "
11:2009)	Therefore the protective earthing of the b		K hotek Anbote	Ann
	installation need to be isolated from the s		boten Anbo k	otek o
	a cable distribution system.		otek anboten Anb	. V
	It is however accepted to provide the insu	ulation	Anbo A. Stek	upoter
	external to the equipment by an adapter	or an	aboten Anbo	Lotek.
	interconnection cable with galvanic isolat	or, which	Ar atek anboter	YUD.
	may be provided by e.g. a retailer.		Anbo	Anbote.
	The user manual shall then have the follo	-	ek anboten Anbo	
	similar information in Norwegian and Swe		Ar. stek abote	VUD.
	language respectively, depending on in w		botek Anbo	tek
	country the equipment is intended to be u		tek abotek Anbe	V P
	"Equipment connected to the protective e		Anbor All tek	obotek
	of the building installation through the ma		hotek Anbot A	Yek
	connection or through other equipment w connection to protective earthing – and to		An botek	Aupo
	distribution system using coaxial cable, n		Aupore Vin	"pote"
	some circumstances create a fire hazard		k hotek Anbore	PI.
	Connection to a cable distribution system		And And hotek	Anbo
	therefore to be provided through a device		otek Anbore Ans	You
	providing electrical isolation below a certa		ok botek Anbo	P.
	frequency range (galvanic isolator, see E	Nek	Anbore And	Joseph John John John John John John John Joh
iek Aut	60728-11)."		notek Anbore Ar	*ek
	NOTE In Norway, due to regulation for installa		Ant tek shotek	Pupor N
	cable distribution systems, and in Sweden, a		Anbore All	poter
	isolator shall provide electrical insulation below The insulation shall withstand a dielectric stre		K hotek Anbot	br.
	1,5 kV r.m.s., 50 Hz or 60 Hz, for 1 min.	Anbor	Ant sek botek	Anbo
	Translation to Norwegian (the Swedish te	ext will	otek Anbore Ans	No
	also be accepted in Norway):	Am	ok botek Anbo	P.
	"Utstyr som er koplet til beskyttelsesjord	⁄ia	Inbote Ant	potek
	nettplugg og/eller via annet jordtilkoplet u		notek Anbore All	Yes
	og er tilkoplet et kabel-TV nett, kan forårs		And botek	Allpor
	brannfare. For å unngå dette skal det ved		Anbore And	hotek
	tilkopling av utstyret til kabel-TV nettet ins		K sotek Anbore	Alle
	en galvanisk isolator mellom utstyret og k	abel- TV	And K hotek	Anbo
	nettet."		stek Anbote And	. Yo
	Translation to Swedish:		k stek subot	An
	"Utrustning som är kopplad till skyddsjord		aboter Anbe	Olek
	jordat vägguttag och/eller via annan utrus		tek aboten Ani	V
	och samtidigt är kopplad till kabel-TV nät		Anbor Air	poter
	vissa fall medfőra risk főr brand. Főr att u		botek Anbor	P. Stek
	detta skall vid anslutning av utrustningen	till	Ann	Aupor
	kabel-TV nät galvanisk isolator finnas me	011.	10.1	1



notek 1	Minder Andrew	An otek anbotek Av	Upo.
Ano	EN 60950-1	Anbo A. notek	Anbote.
Clause	Requirement – Test	Result - Remark	Verdict
- Anbote,	And Anhor Anhor	Jek abotek Anbo	r
1.7.2.1	In Denmark, CLASS I PLUGGABLE	notes.	Nupo
(A2:2013)	EQUIPMENT TYPE A intended for connection to	1. O. D. 1	In Yes
de Yeu	other equipment or a network shall, if safety relies	Mr. K hotek Anbo	Pr.
Occ. VIII	on connection to protective earth or if surge	Anbotek Anbote Anb	hotek.
wotek p	suppressors are connected between the network	Anbotek Anbote Ar	- X-
KUD K	terminals and accessible parts, have a marking	Anbo	nbote
anbote.	stating that the equipment must be connected to an earthed mains socket-outlet.	k aboten Anbe	rek
A. stek	The marking text in Denmark shall be as follows:	All tek abotek	Anbe
Anbo	In Denmark : "Apparatets stikprop skal tilsluttes	olek Aupor Ali	bott
k hotel	en stikkontakt med jord, som giver forbindelse til	k hotek Anbore	VIII
Ann	stikproppens jord."	boten Anb	ek ant
1.7.5	and the second	Tek Upoter Mupo	Let N
1.7.5	In Denmark , socket-outlets for providing power to	Anbo An tek	poteria
aboten A	other equipment shall be in accordance with the	hotek Anbor An	Yek
XI.	Heavy Current Regulations, Section 107-2-D1,	Ans botek	Aupo
Anbor	Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a,	K Anbote Ant	hotek
notek.	when used on Class I equipment. For STATIONARY EQUIPMENT the socket-outlet	K stek Anbore	Ant
And	shall be in accordance with Standard Sheet DK 1	oter Anbo	Vupore
k abote.	1b or DK 1-5a.	tek aboten Anbo	
Pri	K No. V.	inport Air tek aboti	Se Aug
otek Anbo	For CLASS II EQUIPMENT the socket outlet shall be	potek Anbors Am	494
4.75	in accordance with Standard Sheet DKA 1-4a.	And Notek Ant	D 1
1.7.5 (A2:2013)	In Denmark , socket-outlets for providing power to	Anbore And	hoteN
(712.2010)	other equipment shall be in accordance with the DS 60884-2-D1:2011.	atek Anbore	bur
Ans	DS 00004-2-D1.2011.	Anbo	Anbore
abote	For class I equipment the following Standard	tek shoten Anbo	n'e'
N. Stek	Sheets are applicable: DK 1-3a, DK 1-1c,	Air rek aboten	Anbe
Anbo	DK 1-1d, DK 1-5a or DK 1-7a, with the exception	Notek Anbor Air	dr. As
100's	for STATIONARY EQUIPMENT where the	ny ok hotek Aupor	Pri.
VI.	socket-outlets shall be in accordance with	inpose Ann	Otek D
hotek Ar	Standard Sheet DK 1-1b, DK 1-1c, DK 1-1d or	otek Anbore And	· «K
No.	DK 1-5a.	Anbo	abore
abote	Anbor All sek	aboten Anbe	stek
K. Stek	Socket outlets intended for providing power to	All tek aboten	Aupo
Anbo	Class II apparatus with a rated current of 2,5 A	tek Anbor Air tek	abote
botek	shall be in accordance with DS 60884-2-D1	lek hotek Anbore	Pri
VIII	standard sheet DKA 1-4a. Other current rating	thore And Lok hote	Anb
lek Vupo,	socket outlets shall be in compliance with by	notek Anbote Anb	No.
40.	DS 60884-2-D1 Standard Sheet DKA 1-3a or	And K Jotek And	Or P.
pore An	DKA 1-3b.	anbote. Anb	wotek
otek	Ministration of hotek Anborr	protek apoter p	"MD
Anbo	Justification	Anbo. Al.	aboter
2.24	the Heavy Current Regulations, 6c	ok hotek pupor	by.
2.2.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1	An Motek	Moter
2 2 2	and 6.1.2.2 of this annex.	Total Anbore And	
2.3.2	In Finland, Norway and Sweden there are	K wotek Anbote	Nupo
And	additional requirements for the insulation. See	aboten Anbo	lek ar
224	6.1.2.1 and 6.1.2.2 of this annex.	Fek aboter Aubi	VAI
2.3.4	In Norway , for requirements see 1.7.2.1, 6.1.2.1 and 6.1.2.2 of this annex.	Anbor An	Nyatote
2.6.3.3	In the United Kingdom , the current rating of the	Potek Vipo, V	P*
2.0.3.3		And wotek	Anbor
Pole	circuit shall be taken as 13 A, not 16 A.	et sporter rup	rek



, o/-	EN 60950-1	k. Lotek	anbore.
lause	Requirement – Test Result -	Remark	Verdic
aboten	Anbo K Stek Anbore And Sk	hotek Anbos	Pre
.7.1	In the United Kingdom , to protect against excessive currents and short-circuits in the PRIMARY CIRCUIT of DIRECT PLUG-IN		ootek Nuc
	EQUIPMENT, tests according to 5.3 shall be conducted, using an external protective device rated 30 A or 32 A. If these tests fail, suitable protective devices shall be included as integral		Anbotek Anbotek
10.5.13	parts of the DIRECT PLUG-IN EQUIPMENT, so that the requirements of 5.3 are met. In Finland , Norway and Sweden , there are	Ambotek Anbotek	Anbore No
Anbor	additional requirements for the insulation, see 6.1.2.1 and 6.1.2.2 of this annex.	Anbotek Anbot	otek bu
2.1.1 And	In Switzerland , supply cords of equipment having a RATED CURRENT not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 60884-1 and one of the following dimension sheets:		Anbotek Anbotek
	SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10 A		otek Anb
	SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A		nbotek
	In general, EN 60309 applies for plugs for currents exceeding 10 A. However, a 16 A plug and socket-outlet system is being introduced in Switzerland, the plugs of which are according to		Anbotek
	the following dimension sheets, published in February 1998:		tek A
	SEV 5932-2.1998: Plug Type 25 , 3L+N+PE 230/400 V, 16 A		Anbotek
	SEV 5933-2.1998:Plug Type 21, L+N, 250 V, 16A		Anbotek
	SEV 5934-2.1998: Plug Type 23, L+N+PE 250V, 16 A		Anbo



Upo.	Ar otek Anboten Anbo	EN 60950-1	Anbore And	abotek
Clause	Requirement – Test	pole Alla	Result - Remark	Verdic
aboter	Anbo	Vupose Vup	ak hotek Anbot	X
B.2.1.1 Anbo Anbotek Anbotek Anbotek	In Denmark , supply cords of sequipment having a rated curre exceeding 13 A shall be provide according to the Heavy Current Section 107-2-D1. CLASS I EQUIPMENT provide outlets with earth contacts or with the section of the contact is required according to the provided with a provided	ent not ed with a plug at Regulations, ed with socket- which are intended protection against eording to the wiring	Anbotek	Notek kotek Anbotek Anbote
	with standard sheet DK 2-1a or If poly-phase equipment and sequipment having a RATED Cexceeding 13 A is provided with a plug, this plug shall be in the Heavy Current Regulations or EN 60309-2.	r DK 2-5a. ingle-phase URRENT h a supply cord n accordance with		otek Anbotek Anbotek
3.2.1.1 A2:2013)	In Denmark , supply cords of sequipment having a rated curred 13 A shall be provided with a pDS 60884-2-D1. CLASS I EQUIPMENT provided outlets with earth contacts or with the sequipment of the used in locations where prindirect contact is required according to the shall be provided with a pwith standard sheet DK 2-1a or sequipment.	ent not exceeding blug according to ed with socket-which are intended protection against cording to the wiring blug in accordance	Anbotek	Anbotel Anbotel
	If a single-phase equipment had CURRENT exceeding 13 A or equipment is provided with a splug, this plug shall be in accordant sheets DK 6-1a in DS EN 60309-2. Justification the Heavy Current Regulations	if a poly-phase upply cord with a rdance with the 6 60884-2-D1 or		otek hibotek Anbotek



Stok	Thotek Aupoter Anboter	And tek abotek	por
Yupo.	EN 60950-1	Anbore An Botek	anbotek
Clause	Requirement – Test	Result - Remark	Verdict
3.2.1.1	In Spain , supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to UNE	botek Anbotek Anbotek	Nabote Ant
otek Anb	20315:1994. Supply cords of single-phase equipment having a	Anbotek Anbotek An	botek
Anbotek	rated current not exceeding 2,5 A shall be provided with a plug according to UNE-EN 50075:1993.	Anbotek Anbotek	Anbotek
k Aupotel	CLASS I EQUIPMENT provided with socket- outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring	botek Anbotek Anbotek	ek Anbo
nbotek Anu	rules, shall be provided with a plug in accordance with standard UNE 20315:1994.	Anbotek Anbotek An	potek p
Anbotek	If poly-phase equipment is provided with a supply cord with a plug, this plug shall be in accordance with UNE-EN 60309-2.	ok Anbotek Anbotek	Anbotek
3.2.1.1	In the United Kingdom , apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS	ootek Anbotek Anbotek	N ₁₀
abotek Ar	1363 by means of that flexible cable or cord and plug, shall be fitted with a 'standard plug' in accordance with Statutory Instrument 1768:1994 - The Plugs and Sockets etc. (Safety)	Anbotek Anbotek An	Anbotek A
Anbotek	Regulations 1994, unless exempted by those regulations. NOTE 'Standard plug' is defined in SI 1768:1994 and essentially means an approved plug conforming to BS	k Anbotek Anbotek	Anbotel
3.2.1.1	1363 or an approved conversion plug. In Ireland , apparatus which is fitted with a flexible	Anbotek Anbotek Anbote	otek N A
Anbotek An	cable or cord and is designed to be connected to a mains socket conforming to I.S. 411 by means of that flexible cable or cord and plug, shall be	Anbotek Anbotek	anbotek Anbotek
Anbotek	fitted with a 13 A plug in accordance with Statutory Instrument 525:1997 - National Standards Authority of Ireland (section 28) (13 A Plugs and Conversion Adaptors for Domestic	otek Anbotek Anbotek	Anbotek
3.2.4	Use) Regulations 1997. In Switzerland , for requirements see 3.2.1.1 of	Anbotek Anbotek Anb	N
D. COLON	this annex.	Pupo, by	"pore"
3.2.5.1	In the United Kingdom , a power supply cord with conductor of 1,25 mm ² is allowed for equipment with a rated current over 10 A and up to and including 13 A.	Anbotek Anbotek	Anbotek Anbotek
3.3.4	In the United Kingdom , the range of conductor sizes of flexible cords to be accepted by terminals for equipment with a RATED CURRENT of over 10 A up to and including 13 A is:	hbotek Anbotek Anbotek Anbotek	Nana Nana Nana
Anbotek	• 1,25 mm² to 1,5 mm² nominal cross-sectional area.	Anbotek Anbotek A	Anbotek



nbotek	Aupor K All	EN 6	0950-1	botek	Anboil	stek
Clause	Requirement – Test	ak anbotok	0000-1	Result - Remar	k Anbotek	Verdict
Clause	rtequirement – rest	k hotek	Aupore,	rtesuit - rtemai	Morek	Verdict
4.3.6	In the United Kingdo performed using a so BS 1363 part 1:1995 1:1997 and Amendm of DIRECT PLUG-IN assessed to BS 1363 12.9, 12.11, 12.12, 13 except that the test o less than 125 °C. Wh replaced by an Insula (ISOD), the requirem also apply.	ocket outlet comply, including Amend ent 2:2003 and the EQUIPMENT shad: Part 1, 12.1, 12.2.13, 12.16 and 13 f 12.17 is performmere the metal earlieted Shutter Open	ving with ment e plug part all be 2, 12.3, 2.17, ed at not th pin is ing Device	tok Anboundaries Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	tek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Nobek Anbotek Anbotek Anbotek Anbotek
4.3.6	In Ireland , DIRECT F known as plug simila comply with Statutory National Standards A 28) (Electrical plugs, sockets for domestic	r devices. Such de y Instrument 526:1 Authority of Ireland plug similar device	evices shall 997 - (Section es and	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek	Anbotek
5.1.7.1 DO	In Finland, Norway a CURRENT measurer mA r.m.s. are permitted equipment: • STATIONARY PLUTYPE A that is interested in the RESTRICTED ACCE equipotential bonding example, in a telecon has provision for a permitted permitted with instruction of the results of the	ment results exceed and only for the following the following the following has been applied munication centrermanently connected the following for the instance of the following for the instance of the following for the following	eding 3,5 lowing MENT in a there d, for e; and cted OR; and callation of N;	Anbotek	Anbotek	tek N Anibotek Anbotek Anbotek Anbotek Anbotek
Anbotek Anbotek	TYPE B; • STATIONARY PER EQUIPMENT.		A. notek	k Anbotek		Anbotek



		EN 6095	0-1tek			
Clause	Requirement – Test	Anboto A	Resul	t - Remark	por	Verdi
aboter	And A hotel	Anbore	Ann	potek	Anbo.	p.
S.1.2.1 A1:2010)	In Finland , Norway and following text between the paragraph of the compliant	ne first and second ance clause:	Albotek			ek Muj
	If this insulation is solid, forming part of a compor consist of either	nent, it shall at lea	st Ant			anbotek Anbotek
	 two layers of thin sheet shall pass the electric str 	rength test below,	or			Anbote
	- one layer having a dista at least 0,4 mm, which s strength test below.					K Ant
	Alternatively for compon through insulation requir consisting of an insulatin filling the casing, so that	ements for the ins	ulation oletely			otek Inbotek
	CREEPAGE DISTANCE component passes the e accordance with the comand in addition	electric strength tes	st in			Anbote
	- passes the tests and in 2.10.11 with an electric s multiplied by 1,6 (the ele	strength test of 1,5	kV knbote			otek '
	 2.10.10 shall be perform is subject to ROUTINE strength during manufact voltage of 1,5 kV. 	TESTING for elec	tric			Anbotel
Anbor	It is permitted to bridge to optocoupler complying w		an My otek	Anbote	Anbote	N
	It is permitted to bridge to capacitor complying with subclass Y2.					nbotek
	A capacitor classified Y3 EN 60384-14:2005, may under the following cond	bridge this insula	tion			Anbotel
		ified Y3 as defined addition to the Y3 t	l by esting,			rek b
	is tested with an impulse EN 60950-1:2006, 6.2.2	,1;	otek Anbo			botek
	- the additional testing sl the test specimens as de	escribed in EN 603	884-14;			Anbotek
	- the impulse test of 2,5 before the endurance test sequence of tests as des	st in EN 60384-14	, in the			Anbo

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Aupole	EN 60950-1	Anboten Anbo tek	abotek
Clause	Requirement – Test	Result - Remark	Verdict
boten	Anbo And Anbore And	ok hotek Anbo	Pr
6.1.2.2	In Finland, Norway and Sweden, the exclusions are applicable for PERMANENTLY CONNECTED EQUIPMENT, PLUGGABLE EQUIPMENT TYPE B and equipment intended to be used in a RESTRICTED ACCESS LOCATION where equipotential bonding has been applied, e.g. in a telecommunication centre, and which has provision for a permanently connected PROTECTIVE EARTHING CONDUCTOR and is provided with instructions for the installation of that conductor by a SERVICE PERSON.	Anbotek	Nobel Nobel Anbotek Anbotek
7.2 nbotek	In Finland , Norway and Sweden , for requirements see 6.1.2.1 and 6.1.2.2 of this annex. The term TELECOMMUNICATION NETWORK in 6.1.2 being replaced by the term CABLE	Anbotek Anbotek Anbotek Anbotek	otek N Am
7.3 (A11:2009)	DISTRIBUTION SYSTEM. In Norway and Sweden , for requirements see 1.2.13.14 and 1.7.2.1 of this annex.	Anbotek Anbotek	Nipote



1.5.1 (1)	TABLE: List of critical	components		Anbote. And	P pol
Object/part No.	Manufacturer/ trademark	Type/model	Technical data	Standard (Edition / year)	Mark(s) of conformity ¹)
Plug	WJ	WJY-303	16A, 250V AC	BS 1316	VDE
The power cord	BAOHING	H05VV-F	300/500V, 3 x 0.75mm ²	IEC 60227	VDE Anbotek
PCB Ambotek	Interchangeable	Interchang eable	V-0, 130°C	UL 94	Otek Anbo
Plastic enclosure	Chi Mei Corporation	PA- 765A(+)	ABS, V-0	UL 94	UL (E56070)
Fuse (F1) Botek Anbotek Anbotek	Suzhou Littelfuse OVS Ltd.	215-Series	T1 AL 250 VAC, 5 x 20 mm	IEC 60127-1: 2006 IEC 60127-2: 2003 + A1 EN 60127-1: 2006 EN 60127-2: 2003 + A1	VDE Anbotek Anbotek ek Anbotek botek Anbot
Fuse (F2)	Suzhou Littelfuse OVS Ltd.	215-Series	T1 0AL 250 VAC, 5 x 20 mm	IEC 60127-1: 2006 IEC 60127-2: 2003 + A1 EN 60127-1: 2006 EN 60127-2: 2003 + A1	VDE k Anbotek Anbotek Anbotek
Fuse holder	Echo Electric Co., Ltd.	FH-B02, FH-B12	10 A, 1.6 W, 250 V, 5 x 20 mm V-0 material	EN 60127-1: 1991 + A1 + A2 EN 60127-6: 1994 + A1 + A2	VDE (40003765)
Relay	HANKUK RELAY	HR91A	250V, 5A; 125AC, 10A	IEC 61810-1: 2003 EN 61810-1: 2004	VDE Ambotek
Inductance (LF1)	Interchangeable	Interchang eable	130°C	EN 60950-1	Tested with appliance
Transformer (T1)	JEICO ANDOLO	JREMO 6K	Class B	EN 60950-1	Tested with appliance

1.6.2	TABLE: ele	ectrical data te	st (in norn	nal conditi	ons)	hotek Anbotek AnboP
fuse #	I rated (A)	U (V)	P (W)	I (A)	I fuse (A)	condition
K F1 nbot	ek - Anbot	90V/50Hz	1.14	0.027	Yupor Fek	Max. normal load.
otek F1	potek - An	100V/50Hz	1.15	0.026	Anbor rek	Max. normal load.
F1	0.5	230V/50Hz	1.31	0.018	Aupo	Max. normal load.
F16K	0.5	253V/50Hz	1.36	0.018	- Aupo	Max. normal load.
F1 otek	0.5	90V/60Hz	1.14	0.027	DOSE. T	Max. normal load.



1 1/		15-11	the state of the s	0.17	V	
F.1º	0.5	100V/60Hz	1.16	0.025	-voteV-	Max. normal load.
F1 _{nbote}	-K -Anb	230V/60Hz	1.34	0.018	uporsk	Max. normal load.
itek F1 Anb	Die, Vu	253V/60Hz	1.40	0.018	An abotek	Max. normal load.
hotek - P	0.032	3Vdc	0.05	0.017	- nbot	Normal operation.
Remark:	Anbote	View YOR	abotek	Aupo	V. P.	otek Anbote Anb

2.1.1.5 c) 1) TABLE: n	nax. V, A, VA test	Aupore A	anbotek Anbo	ek Anbe
Voltage (rated) (V)	Current (rated) (A)	Voltage (max.) (V)	Current (max.) (A)	VA (max.) (VA)
Andrek - abotek	Wuporg Yun	otek - Anbotek	Mupo.	- Anbote
Remark:	Anbore. A	ins sek inbot	ek Anbor	Ar. Sotek Anboten

2.1.1.5 c) 2) TABLE: s	tored energ	A VIII	abotek	Anbotek K	'upo, Otek	Anbotek Nanbe
Capacit	tance C (µF)	,	Voltage U (V)			Energy E (J	J)
hbote.	Ann	anbotek	Anbor.	Ai. notek	Anboten	Anbo	abotek
Remark:	Anbo	abotek	Anbore	Am	k Anbote	Aupor	ek hotek

2.2 Anbote	TABLE: evalu	ation of voltage limiting o	omponent	s in SELV	circuits	Aupo	K P NO
Loca	ation	Voltage measure	ment (V)	(V) Comments			
Component	(measured bet	ween)		Itage (V) operation)	Voltage L	imiting Co	mponents
Transformer	Location		V peak	V d.c.			
T1Anb	T1 Pin 5 to	Pin 6	16.3	- Aup	T1	abotek	Anbore
T1 Anbo	After D3 to	Γ1 Pin 6	ek - Ank	8.9	D3	A. shote	K Anbo
Fault test pe	rformed on vol	age limiting components	Vol	Itage meas (V p	ured (V) ir beak or V (cuits
D3 short circ	cuitotek A	por Ar potek	Anboten	Anbo	6 0 nb	otek P	'upore
Remark: Inpu	ut voltage: 264\	//50Hz	anbotek	Anbor	· ek	hotek	Anboren

: limited power sour	rce measurement			N N	
Output voltage	Output current	(Isc) (A)	Apparent power (S) (VA)		
(Uoc) (V)	Meas.	limit	Meas	limit	
Anbore An	otek - nbotek	Anbor	Pr.	Anboten	
k Augotes	Anb. otek - nbotel	Fupore	An- hotek	Anbotek	
	200	(i loc) (\/)	Output voltage Output current (Isc) (A)	Output voltage Output current (Isc) (A) Apparent po	



2.10.2 TABL	.E: Working vo	ltage measure	ement	Anbolt	notek Anbotek Panbo
Component	From	То	V rms	V peak	Remark
or Air	Pin1	Pin5	202	378	An hotek Anbotek
	Pin2	Pin5	215	403	ek Anbotek Anbotek
	pote ^K Pin3 Anb	Pin5	303	508	stek Anbotek Anboten
Anbo	Pin4	Pin5	272	496	hoo dek Anbotek Anbot
tek abotek	Pin1	Pin6	206	412	Anbotek Anbotek Ant
	Pin2	Pin6	294	437	And hotek Anbotek
hore tek Anapol	Pin3	Pin6	279	542	ek Anbotek Anbotek
	otek Pin4 Anbe	Pin6	256	462	tek abotek Anbotek
CY1	AnbotePri. A	Sec.	203	336	nbotek Anbotek Anbote
Remark:	anbotek	Anbot A	hotek	Anbotek	Anbo sek abotek Anb

2.10.3 and 2.10.4	TABLE: Cleara	nce and cre	eepage dista	ance measure	ments	Anbotek	Anbote P
	l) and creepage at/of/between:	U peak (V)	U r.m.s. (V)	Required cl (mm)	cl (mm)	Required cr (mm)	cr (mm)
Functional:	ek Anbotek	Anbotek	K Anbos	k Anbotek	Anbote	Yek Anto	tek Anbo
Trace of L/N	before fuse	420	250	otek 1.5 Anbot	3.0	2.5	3.0
Basic/supple	mentary:	e. Aup	abotek	Anbotek An	borek	Anbotek	Anbotek
Between Fus PCB	e two ends on	420	250	Anbotek	3.4	2.5	3.4
Reinforced:	k Anbotek	Anbore	Ambote	K Anbotek	ok Anbo	otek Anbot	ek Anbo
Across CY1	otek Anboten	420	250	4.0	6.0	obote ^V 5.0 An	6.0
T1 primary w secondary wi	inding to inding on PWB	538	323	4.4	>7.0	6.5	>7.0
T1 primary w secondary wi	inding to inding on body	538	323	4.2	>7.0	6.5	>7.0
Supplementa	ary information:	nbotek	Anbore	Y Work	Anbote	Anbo	ek spok

2.10.5	TABLE: Dista	ance throug	h insulatio	n measurem	ents	otek an	potek N	Ant
distance thr	ough insulation	n di at/of:	U peak (V)	U rms (V)	Test voltage (V)	Required DTI (mm)	DTI (mm))
And	anbetek.	Anbor	Ar Potek	Anbote.	Anbo rek	botek	Aupor	14
Remark:	anbotek	Anbore	Yu.	tek Aupo	tek Aupor	ek abotek	Anbo	ie.



4.3.8	TABLE: E	Batteries	iek h	abotek	Anboto	VIII	ntek.	Anbotek	Nupoc
The tests of data is not a		applicable o	only when app	propriate ba	attery prof	hotek A'	Anbotek	Anbot	K N Ant
Is it possible	to install t	he battery	in a reverse p	olarity pos	ition?	rek	anbote	V Vul	N
'up	Non-re	chargeable	e batteries		F	Rechargeal	ole batteri	es	2701
Anbou	Disch	arging	Un-	Chai	rging	Discha	arging	Reverse	d charging
Anbote.	Meas. current	Manuf. Specs.	intentional charging	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.	Meas. current	Manuf. Specs.
Max. current during normal condition	nbotek nbotek	nbotek Anhotek Anbotek	Anbotek Anbotek	Anbotek Anbot	e ^k — Ar	potek Anbotek	Anbotek Anbotel	Anbote Anb	otek And
Max. current during fault condition	Anbotel	Anbo	botek Anh	anbotek Anbotek	Anbotek Anbotek	Anbo. Anbot	ootek b	Anbotek Anbotek	Anbotel Anbotel
tek Anbe	V.	Up	abotek	Anbott	K Vu	otek	Anbotek	Aupor	· ek
Test results:	hotek	Anbot	hotek.	Anbor	D.C.	See belov	V nbotek	Aup	Verdict
- Chemical l	eaks	Anbore	-K Mote	K AN	otel	No leakag	jed	tek p	nbote.
- Explosion	of the batte	ery Anbo	Va. Vula	stek	nbotek	No explos	ion	hotek	Anboter
- Emission o	of flame or	expulsion of	of molten meta	al rek	abotek	No fire			Antootek
- Electric str	ength tests	of equipm	ent after comp	pletion of t	ests	No damag	ged	And	NOC
Supplement	ary informa	ation:	Anbotek	Aupora	k Mun	potek	Anbotek	Anbot	rek by

4.5	TABLE: Thermal requirements	Aupo ak ano	tek Anbore A	Pek
botek	Supply voltage (V)	90V/50Hz	253V/50Hz	_
hotek	Ambient T _{min} (°C):	60.0	60.0	_
ok Nor	Ambient T _{max} (°C)	60.0	60.0	_
Maximum mo	easured temperature T of part/at:	Т ((°C)	Allowed T _{max} (°C)
PCB near U3	inbote, And tek nbotek	85.9	81.6	130
PCB near DE	31 Anbotek Anbour	103.6	92.0	130
Y-Cap. (CY1) Anbotek Anbour Anbote	85.7	84.6	125
T1 winding	ak abotek Anbote Am	102.6	96.3	110
T1 core	tek abotek Anbote And	97.1	84.2	× 110 ×
LF1 winding	ok hotek Anbotes A	94.3	85.3	130
C11 body	Anbotek Anbotek	75.4	68.3	105
Enclosure in	side near T1 top	96.3	80.1	105
Enclosure in	side near T1 bottom	A. 77.1	76.3	105



Enclosure outside near T1 top	71.3	78.0	95
Enclosure outside near T1 bottom	64.4	61.9	95
Remark: For RX	yer Anbo.	abotek Anbot	V. Vun

4.5	TABLE: Thermal requirements			Anbo P
Ann	Supply voltage (V)	3Vdc	oteknbotek	_
Vup. Ofe,	Ambient T _{min} (°C)	60.0	nbo tek - nbotek	_
Anbo	Ambient T _{max} (°C)	60.0	Anbo. Anbote	_
Maximum m	neasured temperature T of part/at:	Т (°C)	Allowed T _{max} (°C)
PCB near U	1 Anbotek Anbot Anbotek	73.6	tek hotek	130
PCB near U	2 Anbotek Anbote Am	78.2	Lek hotek	130
C40 body	K Abotek Anbotes Ann	82.1	hotek hotek	130
Handle	Ar hotek Anboten Anb	62.0	Anboto - Ans	95
Inside enclo	sure Amazotek Anbotek An	68.4	Anbores Anb	105
Outside enc	losure Annotes	64.5	Auporen Aup	95
Remark: For	r TX	Aupote. Vinn	tek abotek p	'upo

4.5.5	TABLE: Ball pressure test of thermoplastics	tek abotek	Anbote	P
cek nb	required impression diameter (mm):	≤ 2 mm	Anbote	Anb
part		test temperature (°C) impression (mr		
Input termin	als Anbotek Anbotek	125	>4r	nm
Remark:	Anbot Kek Abotek Anbote Ans	stek anbotek	Anbo	A. botek

4.7 Anb	TABLE:	Resistance to fire	Aupo M.	hotek P	'upoter Aup	otek P
Pa	rt	Manufacturer of material	Type of material	Thickness (mm)	Flammability class	Evidence
Refer to tal	ole 1.5.1 f	or details	upo kek hotek	Anbore	And	abotek
Supplemen	ntary infori	mation:	Anbore K Am	Anbote	Anbo	, botek

5.1.6	ABLE:	Touch current m	easurement	k spotek	Anbore Ans	otek P ant
Condition		L → terminal A (mA)	N → terminal A (mA)	Limit (mA)	Comments	
L/N to plastic enclosure	Anbotek	0.022	0.022	0.25	lek Anbotek-	Anbotek
Remark:						Anbolo



5.2 Anboten	TABLE: Electric strength tests, impulse to	P about		
Test voltage	e applied between:	Voltage shape (AC, DC, impulse, surge)	Test voltage (V)	Breakdown Yes / No
L and N (Fu	ise, F1 opened)	AC	1500	No
L/N to plast	ic enclosure	AC	3000	No No
Supplemen	tary information:	nbore And	k abotek	Anbot

5.3.5 TAE		TABL	TABLE: Fault condition tests					tek botek Anbo	P And	
ambient			nt temperature (°C):				25℃			
model		del/type of power supply					See below			
700		nufacturer of power supply					See page 1			
		100	ated markings of power supply:					See rating label		
No.	No. Componen Fa		Fault	Test voltage (V)	Test time	Fuse #.	Fuse current (A)	Result		
For F	RX:	71110	1. 40	otek	Aupo	be.	tek	abote. And	Lotek	
Anbo	U3 pin5-10		SC	253Vac	10 min	- P.	bo. otek	After SC, unit shut down immediately. No damage, no hazards.		
2 10	R2		sc	253Vac	10 min	erek	Anbotek	After SC, unit shut down immediately. No damage, no hazards.		
3	Yupor C	:11	SC	253Vac	10 min	bo botek	Anbe	After SC, unit shut down immediately. No damage, no hazards.		
4	T1 pin1-2		SC	253Vac	10 min	Aupot	BK - P	After SC, unit shut down immediately No damage, no hazards.		
5	T1 pin3-4		SC	253Vac	10 min	- PU	potek_	After SC, unit shut down immediate No damage, no hazards.		
6	T1 p	oin5-6	SC	253Vac	10 min	e/-	Anbote.	After SC, unit shut down immore No damage, no hazards.	nediately.	
For 7	X: 06	6	Auporg	VII.	.K	notek	Anbo	n stek anbote	Ans	
7	U3 p	oin1-2	SC	3Vdc	10 min	anbotek	-Aupo	After SC, unit shut down immore No damage, no hazards.	nediately.	
8	P.	R8 SC		3Vdc	10 min	Ambot	** by	After SC, unit shut down immediately No damage, no hazards.		

Remark:

- 1) SC: short-circuit.
- 2) #: Denoted that the test was also performed on all alternate material of transformers, and all results were same.
- 3) The Hi-pot test conducted successfully after the completion of the fault condition.











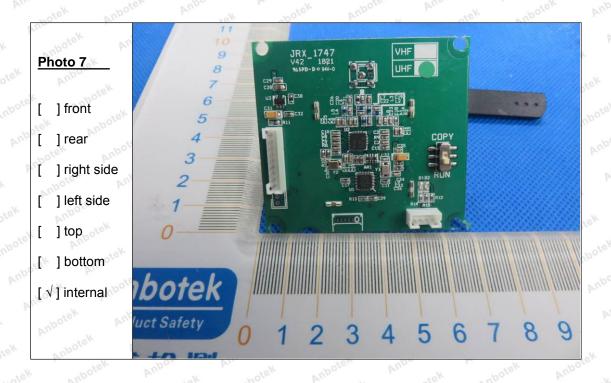






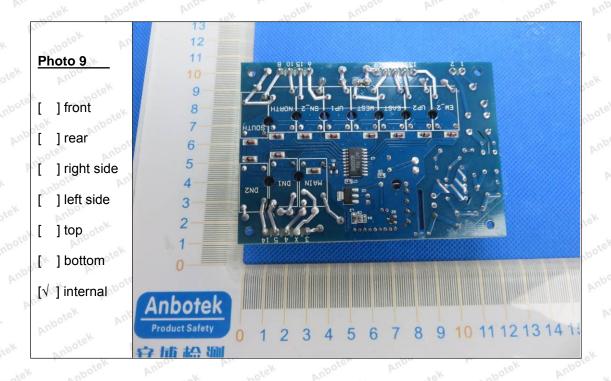














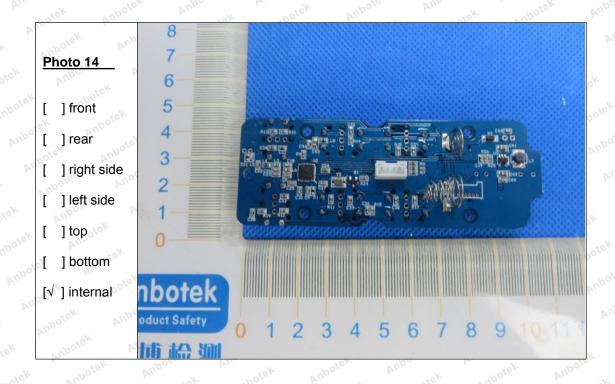




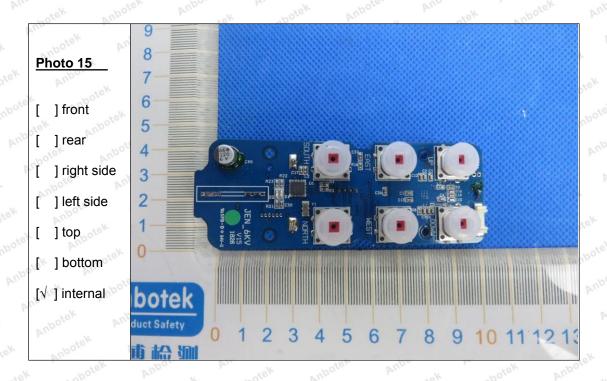












End of report