

Report No.: 18250SC00074501

Test Report

Client Name : Acrel Co., Ltd.

Address : No.253, Yulv Road, Jiading District, Shanghai, China

Product Name : Single-phase electric energy meter(DIN-rail)

Date : Sept_xx_2020



TEST REPORT

EN 61010-1

Safety requirements for electrical equipment for measurement, control, and laboratory use Part 1: General requirements

Report reference No. 18250SC00074501

Compiled by: Sanko Chen

Approved by: Jeff Zhu

Date of issue: Sept. xx, 2020

Contents: 51 pages

Testing laboratory...... Shenzhen Anbotek Compliance Laboratory Limited

Address 1/F, Building D, Sogood Science and Technology Park, Sanwei

community, Hangcheng Street, Bao'an District, Shenzhen,

Guangdong, China.518128

Testing location: Same as above

Applicant Acrel Co., Ltd.

Address . No.253, Yulv Road, Jiading District, Shanghai, China

Test specification

Standard.....: EN 61010-1:2010+A1:2019

Test procedure LVD test report

Type of test object

Description Single-phase electric energy meter(DIN-rail)

Trademark......Acrel

No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu

Province, China

Factory.....: Same as manufacturer

Address Same as manufacturer

Rating AC220-230V, 10A, 50Hz





Page 3 of 51



Test item particulars

Pollution degree.....: III

Operating conditions Continuous operation

Connection to supply mains: None

Special protection to IEC 60529...... IP20

Possible test case verdicts

- test case does not apply to the test object...... N (N.A.)

- test object does meet the requirement P (Pass)

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

Testing

Date of receipt of test item Sept. 18, 2020

Date(s) of performance of test....... Sept. 18, 2020 to Sept. 25, 2020

General remarks

"(See remark #)" refers to a remark appended to the report.

"(See appended table)" refers to a table appended to the report.

Throughout this report a dot is used as the decimal separator.

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

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According to the EU directives which have been aligned with EU NLF (new legislative framework), both of manufacturer and importer's name and address shall be affixed on the product or, where that is not possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.

Copy of marking plate

Single-phase electric energy meter(DIN-rail)

Model No: ADL200

Rating: AC220-230V, 10A, 50Hz



Acrel Co., Ltd.

No.253, Yulv Road, Jiading District, Shanghai, China

Importer: XXX Address: XXX







Page 4 of 51

Am	Page 4 of 51	Report No. 18250	
	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Vupore,	Aug Hek Johek Augo, W. Pol	tek Yupone, Yun	anbotek
4.4 Ambolek	TESTING IN SINGLE FAULT CONDITION	notek Anbotek Anbo	Popor
4.4.1	Fault tests	hotek Anbotek Anbo	P A
4.4.2	Application of fault conditions	Anbotek Anbotek	P
4.4.2.1	Single fault conditions not covered by 4.4.2.1 to 4.4.2.12	Anbotek Anbotek Ar	nnbotel.
4.4.2.2	Protective impedance	et Anbotes Anto	Niek
4.4.2.3	Protective conductor	tek Anbotek Anbo	Naore
4.4.2.4	Equipment or parts for short-term or intermittent operation	Albotek Anbotek Anbo	ek N Anto
4.4.2.5	Motors	Anbore Am	potek N
4.4.2.6	Capacitors	Aupoten Pupa Otek	nboteN
4.4.2.7	Mains transformers	Anbores Anbo	anh Piek
4.4.2.7.2	Short circuit	cek Aupoles Aupo	Noote
4.4.2.7.3	Overload	hotek Anbotek Anbo	× N
4.4.2.8	Outputs	ek Anbotel Anbo	P P
4.4.2.9	Equipment for more than one supply	An Anborek An	Р
4.4.2.10	Cooling	Anhotek Ambotek	rupe. N
4.4.2.11	Heating devices	t otek anbotek	Anbon N
4.4.2.12	Insulation between circuits and parts	anbotek anbotek	P
4.4.2.13	Interlocks	n John Andre Andre	Nanbe
4.4.2.14	Voltage selectors	Ambores Amb	orek N A
4.4.3	Duration of tests	Anboter Anbo	nbote ^k P
4.4.4	Conformity after application of fault conditions	Anbotes Anb	anbo P ^k
Anboick	Anborek Anborek	tek Aupoten Aupo	nbotek
5 Anbotel	Marking and documentation	notek Anbotek Anbot	Pabol
5.1.1	General	otek unbotek Anbore	P
tek N	Required equipment markings are:	and otek Anborek Anbri	10 P.
tek	Visible:	Aug. Tek Vupotek b	lbo. P
Up.	From the exterior; or	And stek subotek	Anboth P
Anba	After removing a cover; or	e Anbour	MA
Anbor	Opening a door	totek Aupon An abotek	Napor
Vupo,	After removal from a rack or panel	inbotek Anbor Air	ek N An
HOK AIR	Not put on parts which can be removed by an	Anbotek Anbote Ant	potek N

Letter symbols (IEC 60027) used
Shenzhen Anbotek Compliance Laboratory Limited

operator



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Page 5 of 51

1-01	Mary April A	PU.	184
Clause	Requirement – Test	Result - Remark	Verdict
Anbe	Contribution of the Contri	Anbo stek anbotek	Aupola
Vupo.	Graphic symbols (IEC 61010-1: Table 1) used	otek Aupo, ar upotek	Paloo
5.1.2	Identification	upotek Aupo, Ai.	- No.
tek Aul	Equipment is identified by:	antotek Anbore An	hotek P
botek	a) Manufacturer's or supplier's name or trademark	Anborek Anbore A	P
potek	b) Model number, name or other means	An. Anboyen	And P
VII.	Manufacturing location identified	at motel amboten	ANP
5.1.3	Mains supply	its. Aug Tek Vipotek	Hupo.
Anbo	Equipment is marked as follows:	aboren Anbo	sk bu
er Ant	a) Nature of supply:	Anbotek Anbo tek	botek
potek l	1) a.c. rated mains frequency or range of frequencies	Anbotek Anbotek	AnboteP AnboteP
And	2) d.c. mark with symbol 1 of Table 1	Ann otek Ambotek	AnhP
Anto	b) Rated supply voltage(s) or range	ie. Yupotek	I _P _{po}
AUD	c) Max. rated power (W or VA) or input current	botes Anbo tek abot	ek Pani
otek Pup.	The marked value not less than 90 % of the maximum value	Ar Anbotek An	otek N
otek	If more than one voltage range:	An ofek Anbotek	Yupo N'K
Aug. Otek	Separate values marked; or	ntek Anbotek	Anbo
Anbu	Values differ by less than 20%	And tek anbotek	N
Aniso	d) Operator-set for different rated supply voltages:	potek Anbo tek anbote	-Anb
Aupo	Indicates the equipment set voltage	Anborek Anbo, Ar	stek N s
otek Ar	Portable equipment indication is visible from the exterior	Anbotek Anbotek	anbotekN
in otek	Changing the setting changes the indication	Ann Lotek Anbotek	Anbo.
Anbotek	e) Accessory Mains socket-outlets accepting standard MAINS plugs are marked:	otek Anbotek Anbotek	Anboy anbo
Anbo,	With the voltage if it is different from the mains supply voltage	inbotek Anbotek Anb	Wek N
by by	For use only with specific equipment	Aupon Mr. Wolek	nbore N
anbotek hbo:	If not marked for specific equipment it is marked with:	Anbotek Anbotek	Aupotek
nbotek	The maximum rated current or power; or	tek Anbotek Anbote	N
Hode	Symbol 14 with full details in the documentation	rek abotek Anbotes	N
5.1.4	Fuses	hotek Anbo	P
r 50	Operator replaceable fuse marking	Aupore Au	potek N





Page 6 of 51

Oleves -	Deminstrated Task	Desult ³⁰ Demand	Value i e 4
Clause	Requirement – Test	Result - Remark	Verdict
5.1.5	Terminals, connections and operating devices	-k hotek Anbotek	Pore
5.1.5.1	General	ote, Augusta	P
otek Ani	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators marked	Anbotek Anbotek Anb	botek P
notek	Insufficient space, symbol 14 used	hotek Anbotek	And Nek
Anbotek	Push-buttons and actuators of emergency stop devices and indicators:	tek Anbotek Anbotek	Anbotel Anbotel
Anbor	used only to indicate a warning of danger or	toolek Aupole Au	ek N Anb
lek but	the need for urgent action	abotek Anbore And	Lotel N
botek	coloured red	anbotek Anboten Ar	N N
botek	coded as specified in IEC 60073	abotek Anbote	Nek
Anbotek	Supplementary means of coding provided, if meaning of colour relates (see IEC 60073):	lek Anbotek Anbotek	Anbotek Anbotek
Aupor	to safety of persons; or	potek Anbor Ar.	ek N _{Anbo}
ek Aup	safety of the environment	anbon An	otek N A
potek p	Indication of emergency stop devices	Anbol A	note N
5.1.5.2	Terminals	botek Anbote	Pun Potek
nbotek	Mains supply terminals identified	ak nbotek Anboro	Notek
abotek	Other terminal marking:	tek abotek Anbore	Ame wo
2/K 2/0°C	a) Functional earth terminals (symbol 5 used)	30. A. abotek Anbot	Name
. ak	b) Protective conductor terminals:	Anbo, ak abotek Ant	P An
, o, b	Symbol 6 is placed close to or on the terminal;	Aupo, W. W. Polsk	nbore P
Anbo.	Part of appliance inlet	Aupo, Ar. Potek	AnboN .
Anbors	c) Terminals of control circuits(symbol 7 used)	k Aupor An Potek	A.Noter
k Aupor	d) Hazardous live terminals supplied from the interior	otek Anborek Anbore	Anborr
John Mar	Standard mains socket outlet; or	inpo sek upotek Anb	N Pro
o. Pr	Ratings marked; or	Anbo. Ak abotek	ipole N
'upo,	Symbol 14 used	Anbo. A. abotek	Nodin
5.1.6	Switches and circuit-breakers	Anbor Ar botek	AT Notes
Aupora	If disconnecting device, off- position marked	stek Aupon Australia	Napore
Anboy	If push-button used as power supply switch:	upotek Aupoin Au	ek N Anb
itek An	Symbol 9 and 15 used for on-position	abotek Anbotes And	otek N
- otek	Symbol 10 and 16 used for off-position	stek supoter b	N





Page 7 of 51

Pair of symbols 9, 15 and 10, 16 close together S.1.7 Equipment protected by double insulation or reinforced insulation Protected throughout (symbol 11 used) Only partially protected (symbol 11 not used) N S.1.8 Field-wiring terminal boxes No such parts If terminal or enclosure exceeds 60°C: N Cable temperature rating marked N Marking visible before and during connection or beside terminal S.2 Warning markings Visible when ready for normal use Are near or on applicable parts Symbols and text correct dimensions and colour: a) symbols min 2,75 mm and text 15 mm high and outstatingin colour with background b) symbols and text moulded, stamped or engraved in material min 2,0 mm high and 0.5 mm depth or cised if noncontrasting in colour If necessary marked with symbol 14 Statement to isolate or disconnectif access byusing a tool to HAZARDOUS LIVE parts is permitted The required markings remain clear and legible in normal use P Safety documentation Fe colour Cable temperature rating min colour in a colour in a contrasting of the colour in a colour in a colour in a colour in a colour in material min 2,0 mm high and O.5 mm depth or cised if noncontrasting in colour If necessary marked with symbol 14 P Statement to isolate or disconnectif access byusing a tool to HAZARDOUS LIVE parts is permitted Fe colour in a colour i	Clause	Requirement – Test	Result - Remark	Verdict
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Documentation includes:	10/L	in electronic media if available at any time	tun otek vupotek Aupr	P P
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	40.	A STATE OF THE PARTY OF THE PAR	A CO	Value





Page 8 of 51

Clause	Requirement – Test	Result - Remark	Verdict
Aupore	And Ante Ante	ek Anbore Anb borek	anbotek
Anboren	b) Technical specification	otek Anboten Anb	Poloot
anbo'	c) Name and address of manufacturer or supplier	Lotek Anbotek Anbo	P
rek ar	d) Information specified in 5.4.2 to 5.4.6	Anbotek Anbotek Anbo	P
botek	e) Information about how to mitigate risks remaining	Anbotek Anbotek Ar	Anbotek Anbotek
	f) accessories for safe operation of the equipment specified	Aupotes Aun	Ant Brek
ek Anbot	g) guidance provided to check correct function of the equipment, if incorrect reading may cause a hazard from harmful or corrosive substances of hazardous live parts	Anbotek Anbotek Anbotek Anbotek Anbotek	P ^{nb} ek Ant
potek	h) Instructions for lifting and carrying (see 7.5)	Anbotek Anbo tek	N ² rodo
Anbotek	Warning statements and a clear explanation of warning symbols:	Anbotek Anbotek	Anb Brek
DUR	Provided in the documentation; or	ors. And otek Anbotek	N
Anto	Information is marked on the equipment	botes And otek Andots	N Anb
5.4.2	Equipment ratings	Alba en Anba yek ant	lotek t
otek	Documentation includes:	Anthre Anthre iek	aborek
Anbotek	a) Supply voltage or voltage range	AC220-230V	Pak
Anbotek	Frequency or frequency range	50Hz	Notel
anbote	Power or current rating	10A	N
k Anbi	b) Description of all input and output connections in accordance to 6,6.1 a)	Anbotek Anbotek Anber	otek P A
hotek p	c) Rating of insulation of external circuits as required by 6.6.1b)	Anbotek Anbotek	nbote ^k N
Anborek	d) Statement of the range of environmental conditions	Ambient temperature: 5°C~40°C	Anbotek
Aupo	e) Degree of ingress protection (IP, IEC 60529)	IPX0	Punbo
Anbo	f) Impact rating less than 5 J	inbotek Antoni ak abr	tel P Ar
HEK A	IK code in accordance to IEC 62262 marked or	Anborek Anbore An	N ^{yerod} N
ipotek	symbol 14 of table 1 marked, with	Anbotek Anbote Ak	bo P
nbotek	RATED energy level and test method stated	ek anbotek Anbote	Niek
5.4.3	Equipment installation	tek anbotek Anbotek	- maj
Pri.	Documentation includes instructions for:	ek abotek Anboten	K FUD
ek Air	a) Assembly, location and mounting requirements	Mupo, Mr.	P
7.0 ×	b) Protective earthing	August Au	N
police.	c) Connections to supply	Anbore Arek	Anbotek P





Page 9 of 51

400	THE SALE WOLL THE	Alek Villa	- 1
Clause	Requirement – Test	Result - Remark	Verdict
Anbe rek	In Danbotte Ambotte Ambotte	Aupo sek subotek	Auporc
Anbo	d) Permanently connected equipment:	otek Anbo, Ar spotek	- A000
Anbor	Supply wiring requirements	abotek Anbore An	N N
sek Ant	If external switch or circuit-breaker, requirements and location recommendation	Anbotek Anbotes And	botek N
bole	e) ventilation requirements	Anbote And	ArbotN
Anbote	f) special services (e. g. air, cooling liquid)	Anbore And And	Nick
Anboren	g) Instructions relating to sound level	tek Anboten Anbo	N
5.4.4	Equipment operation	notek Anbotek Anbo	ek
ek nab	Instructions for use include:	otek Anbotek Anbo	- A
botek p	a) identification and description of operating controls	(see user manual)	P
anbotek	b) Positioning for disconnection	anbotek Anbot	Nek
- nbotek	c) Instructions for interconnection	ek abotek Anbore	P
, botel	d) Specification of intermittent operation limits	(see user manual)	Р
ye ve	e) Explanations of symbols used	ok hotek Anbor	P Am
har.	f) Replacement of consumable materials	Alles k hotek Anh	N
DOLON P.	g) Cleaning and decontamination	Ani And otek	upotek N
Anbotek	h) Listing of anypoisonous or injurious gases and quantities	ok potek Anbotek	Anto N
Anbotek	i) RISK reduction procedures relating to flammable liquids (see 9.5)	potek Anbotek Anbote	N
otek Anbo	j) RISK reduction procedures relating burn from surfaces permitted to exceed limits of 10.1	Anbotek Anbotek Anb	stek N p
nbotek	Additional precautions for IEC 60950 conforming equipment in regard to moistures and liquids	Ambotek Anbotek	N
Anboiek	A statement about protection impairment if used in a manner not specified by the manufacturer	k Aupotek Aupo	Anbotel N
5.4.5	Equipment maintenance and service	lotek Aupon An Motel	· one
Anbot	Instructions for responsible body include:	abotek Anbore Ans	rek -
stek An	Instructions sufficient in detail permitting safe maintenance and inspectionand continued safety:	Anbotek Anbotes And	, botek P
	Instruction against the use of detachable MAINS supply cord with inadequate rating	Anboren And arek	Aupor Pr
Anbotek	Specific battery type of user replaceable batteries	Aupores. Aup.	Potek
anbotek	Any manufacturer specified parts	otek Anbotek Anbo	Papo
Anbore	Rating and characteristics of fuses	otek anbotek Anbore	Р
rek Ant	Instructions include following subjects permitting safe servicing and continued safety:	Anbotek Anbotek Anbo	potek P
botek	a) product specificRISKSmay affect service personnel	abotek Anbote. Ar	P





Page 10 of 51

oter bu	EN 61010-1	Anbotek Anbo	potek
Clause	Requirement – Test	Result - Remark	Verdict
Aupo	And And And And And And Andrew	k Aupon M. Potek	Anbore
Anboter	b) protective measures for theseRISKS	otek Aupoter, Mun tek	Pobo
Anbore	c) verification of the safe state after repair	botek Anbotek Anbo	P
5.4.6	Integration into systems or effects resulting from special conditions	Anbotek Anbotek Anbo	botek N
poler	Aspects described in documentation	Anboter And otek	Arbo'N
Anboten	Ann stek shotek Anboy sk hotel	Anboten And	nbotek
6 Amboren	Protection against electric shock	otek Anbotek Anbo	- bot
6.1 Market	General	work Anborek Anbo.	9k -
6.1.1	Requirements	tek nobotek Anbo	- Pri
botek A	Protection against electric shock maintained in NORMAL CONDITION and SINGLE FAULT CONDITION	Comply with requirement	Anbotek
notek	ACCESSIBLE parts not HAZARDOUS LIVE	ok notek Anbores	And P
ak Anbotek	Voltage, current, charge or energy below the limits in NORMAL CONDITION and in SINGLE FAULT CONDITION between:	sofek Anbotek Anbotek	k Pup
10×	ACCESSIBLE parts and earth	All k abotek Ant	N
Anbotek K	Two ACCESSIBLE parts on same piece of the equipment within a distance of 1,8 m	Annibotek Anbotek	Anborek
Anboren	Conformity is checked by the determination of 6.2 and 6.3 followed by the tests of 6.4 to 6.11	ek Anbotek Anbotek	Pote
6.1.2	Exceptions	bo. A. botek Anbote	- Ans
otek bu	Following HAZARDOUS LIVE parts may be accessible to an OPERATOR:	Anbotek Anbotek Anb	hotek N
inbotek otek	a) parts of lamps and lamp sockets after lamp removal	Anbotek Anbotek	AnboN's
Anborek	b) parts to be replaced by operator only by the use of tool and warning marking	otek Anbotek Anbotek	MN ^o
Anbot	Those parts not hazardous live 10 s after interruption of supply	inbotek Anbotek Anbe	tek N
abotek An	Capacitance test if charge is received from internal capacitor	Anbotek Anbotek A	botek N
6.2	Determination of accessible parts	s botek Anbotes	Ann - Hek
6.2.1	General	bek upotes	AUP

Shenzhen Anbotek Compliance Laboratory Limited

Examination

6.2.2



Р

P P

Unless obviously determination of accessible

- with jointed test finger (as specified B.2)

parts as specified in 6.2.2 to 6.2.4



Page 11 of 51

Clause	Requirement – Test	Result - Remark	Verdict
Clause	requirement – rest	Tresuit - Itemark	Verdict
Anbotek	- with rigid test finger (as specified B.1) anda force of 10 N	otek Anbotek Anbotek	P
6.2.3	Openings above parts that are hazardous live	No openings	OF N AN
hotek An	- test pin with length of 100 mm and 4 mm in diameter applied	Anbotek Anbotek Ar	botek N
6.2.4	Openings for pre-set controls	Anbotek Anbotek	Anbo Nek
Anborek	- test pin with length of 100 mm and 3mm in diameter applied	tek Anbotek Anbotek	Anbor Anbor
6.3 Anborr	Limit values for accessible parts	botek Anbores Anb	ek - onl
6.3.1	Levels in normal condition	botek Anbotek Anbo	otek P
potek	a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.	Accessible enclosure voltage less than limit value	Anbote P
Anbotek	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	ek Anbotek Anbotek	AntiN
abote	Voltages are not HAZARDOUS LIVE the levels of:	tek nbotek Anbote	br.
otek Anb	b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz	And k Anbotek Anbo	otek N
Anborek	for wet locations measuring circuit A.4 used	horek Anbo	no N
Anboten	c) Levels of capacitive charge or energy less:	ek Anbores Anso	Note
Anbore	1) 45 μC for voltages up to 15 kV peak or d.c. or line A of Figure 3	potek Anborek Anbore	K N _{Anb}
otek by	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	Amborek Amborek Amb	N A
6.3.2	Levels in single fault condition	Anbotek Anbot	P/r
Anbotek	a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.	Accessible enclosure voltage less than limit value	Anbotek Anbotek
Anbo	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	lotek Anbotek Anbotek	N _i nb ^o
tek ar	Voltages are notHAZARDOUS LIVEthe levels of:	undek Anbotek Anbe	*8/r
Anbotek Anbotek	b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz	Anbotek Anbotek A	Anborek Anborek
Anbois	for wet locations measuring circuit A.4 used	otek Anbore Anborek	Nabo
Anbot	c) Levels of capacitive charge or energy less:	upotek Aupoin Au	ek N pr
rek an	1) 45 µC for voltages up to 15 kV peak or d.c. or	hotek Anbote Anb	atel N





Page 12 of 51

Olevia a	Deminstrate Trates Andrew	Desult Demand	1 /2 v -1: - 4
Clause	Requirement – Test	Result - Remark	Verdict
Ann	2) 250 m Latered energy for voltages above 15	And otek Anbotek	Pupo.
Aupo	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	otek Anbotek Anbotek	Anborr
6.4	Primary means of protection	Tupose, Mun Olek Pupo	P Ant
6.4.1	ACCESSIBLE parts prevented from being HAZARDOUS LIVE by one or more of following means:	Anbotek Anbotek Ar	potek P Anbotek
Anborek	a) ENCLOSURES or PROTECTIVE BARRIERS (see 6.4.2)	sek upotek Aupotek	An Press
. Abol	b) BASIC INSULATION(see 6.4.3)	tek abotek Anboten	P
ek A	c) Impedance (see 6.4.4)	upo. Anboiek Aupo.	N
6.4.2	Enclosures and protective barriers	Anbor An abotek An	pores P
160x	- meet rigidity requirements of 8.1	Anbor ak abotek	Aupoten N
Anbotek	- meet requirements for BASICINSULATION, if protection is provided by insulation	ek Anbotek Anbotek	An'N
ek Anborr	- meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access	botek Anbotek Anbot	otek Anbe
6.4.3	Basic insulation	Anil k An holek	^{rupote} P
Anbotek	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	ek politik Anbotek	Anb P
6.4.4	Impedance	tek abotek Anbote	N
ek Anb	Impedance used as primary means of protection meets all of following requirements:	Anbotek Anbotek Anbot	NAME AN
	a) limits current or voltage to level of 6.3.2	Anbotek Anbo. Lek	n Votel
Anborek	b) RATED for maximum WORKING VOLTAGE and the amount of power it will dissipate	Anbotek Anbotek	Anba N ^K
Anbotel Anbotel	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7	otek Anbotek Anbotek	A'N Ambot
6.5	Additional means of protection in case of single fault condition	rupotek Vupotek Vup	ter An
6.5.1	ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of:	Anbotek Anbotek A	Anbotek Anbotek
Anbotek	a) PROTECTIVEBONDING(see 6.5.2)	stek Anbotek Anbore	Pabole
k Nabo	b) SUPPLEMENTARYINSULATION (see 6.5.3)	otek Anbotek Anbote	P
otek ar	c) automatic disconnection of the supply (see 6.5.5)	Anbotek Anbotek Anbo	potek N
abotel	d) current-or voltage-limiting device (see 6.5.6)	anbotek Anbot A	not N





Page 13 of 51

Alternatively one of the single means of protection is used: e) REINFORCED INSULATION(see 6.5.3) f) PROTECTIVE IMPEDANCE (see 6.5.4) 6.5.2 Protective bonding 6.5.2.1 ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION: Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL 6.5.2.2 Integrity of protective bonding a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses b) Soldered connections: Independently secured against loosening Not used for other purposes c) Screw connections are secured d) Protective bonding not interrupted exempted as removable part arries MAINS SUPPLY INPUT conhection e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow Exceptions:	Verdict	Result - Remark	Requirement – Test	Clause
is used: e) REINFORCED INSULATION(see 6.5.3) f) PROTECTIVE IMPEDANCE (see 6.5.4) 6.5.2. Protective bonding 6.5.2.1 ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION: Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL Integrity of protective bonding a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses b) Soldered connections: Independently secured against loosening Not used for other purposes c) Screw connections are secured d) Protective bonding not interrupted exempted as removable partsarries MAINS SUPPLY INPUT conhection e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	nbotek	k Anboten Anbo	Aug tek aupotek Aupo, W. Hote	Anboten
f) PROTECTIVE IMPEDANCE (see 6.5.4) 6.5.2 Protective bonding 6.5.2.1 ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION: Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL 6.5.2.2 Integrity of protective bonding a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses b) Soldered connections: Independently secured against loosening Not used for other purposes c) Screw connections are secured d) Protective bonding not interrupted exempted as removable partcarries MAINS SUPPLY INPUT conhection e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	Nanbot	otek Anbotek Anbotek	LOV AD I	
6.5.2 Protective bonding 6.5.2.1 ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION: Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL 6.5.2.2 Integrity of protective bonding a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses b) Soldered connections: Independently secured against loosening Not used for other purposes c) Screw connections are secured d) Protective bonding hot interrupted exempted as removable partcarries MAINS SUPPLY INPUT conhection e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	ISK N AN	upote, Aur otek vupo	e) REINFORCED INSULATION(see 6.5.3)	PULL
ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION: Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL 6.5.2.2 Integrity of protective bonding a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses b) Soldered connections: Independently secured against loosening Not used for other purposes c) Screw connections are secured d) Protective bonding not interrupted exempted as removable partcarries MAINS SUPPLY INPUT conhection e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	potek N	Anbore And atek	f) PROTECTIVE IMPEDANCE (see 6.5.4)	No. Nu
HARZARDOUSLIVE in SINGLÉ FAÚLT CONDITION: Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL 6.5.2.2 Integrity of protective bonding a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses b) Soldered connections: Independently secured against loosening Not used for other purposes c) Screw connections are secured d) Protective bonding not interrupted exempted as removable partcarries MAINS SUPPLY INPUT conhection e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	anbotek	Anbotel And tek	Protective bonding	6.5.2
TERMINAL; or Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL 6.5.2.2 Integrity of protective bonding a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses b) Soldered connections: Independently secured against loosening Not used for other purposes c) Screw connections are secured d) Protective bonding not interrupted exempted as removable partcarries MAINS SUPPLY INPUT connection e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	Anbotek Anbote	Anbotek Anbotek	HARZARDOUSLIVE in SINGLE FAULT	6.5.2.1
to PROTECTIVE CONDUCTOR TERMINAL 6.5.2.2 Integrity of protective bonding a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses b) Soldered connections: Independently secured against loosening Not used for other purposes c) Screw connections are secured d) Protective bonding not interrupted exempted as removable partcarries MAINS SUPPLY INPUT conhection e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	sk Mul	hbotek Anbor Ambor		ek Aupon
a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses b) Soldered connections: Independently secured against loosening Not used for other purposes c) Screw connections are secured d) Protective bonding not interrupted exempted as removable partcarries MAINS SUPPLY INPUT conhection e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	pore N	Anbotek Anbotek An		botek
connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses b) Soldered connections: Independently secured against loosening Not used for other purposes c) Screw connections are secured d) Protective bonding not interrupted exempted as removable partcarries MAINS SUPPLY INPUT connection e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	nbotek.	Anbotek Anbo	Integrity of protective bonding	6.5.2.2
Independently secured against loosening Not used for other purposes c) Screw connections are secured d) Protective bonding not interrupted exempted as removable part carries MAINS SUPPLY INPUT connection e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	N Anbore	botek Anbotek Anbotek	connected structural parts or discrete conductors or both; and withstands thermal and	Anbotek Anbotek
Not used for other purposes c) Screw connections are secured d) Protective bonding not interrupted exempted as removable partcarries MAINS SUPPLY INPUT connection e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	oter _ P	Ar k hotek Ant	b) Soldered connections:	by.
c) Screw connections are secured d) Protective bonding not interrupted exempted as removable partcarries MAINS SUPPLY INPUT connection e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	N soddy	Ante Ante Sofek	Independently secured against loosening	o, b
d) Protective bonding not interrupted exempted as removable partcarries MAINS SUPPLY INPUT connection e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	AnbN	Poles View	Not used for other purposes	Anborak
exempted as removable partcarries MAINS SUPPLY INPUT connection e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	Note	ek Anbore An work	c) Screw connections are secured	Aupore
e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	N _{anb}	potek Anboro Ans	d) Protective bonding not interrupted	Anbore
connection specifically designed, and meets 6.5.2.4 f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	stek N	Anbotek Anbotek Anb	exempted as removable partcarries MAINS SUPPLY INPUT connection	k Aupc
regarded as PROTECTIVE BONDING) g) If mains supply passes through: Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	nbotek Anbotek	Anbotek Anbotek	connection specifically designed, and meets	inposek b
Means provided for passing protective conductor Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	NN anbo	otek Anborek Anborek	f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING)	Anbotek
Impedance meets 6.5.2.4 h) Protective conductors bare or insulated, if insulated, green-and-yellow	rek N	botek Anbotek Anti-	g) If mains supply passes through:	Anbo
h) Protective conductors bare or insulated, if insulated, green-and-yellow	_{stek} N	Anbotek Anbotek Anb	Means provided for passing protective conductor	tek ar
if insulated, green-and-yellow	JP - FEK	Anbotek Anbotek A	Impedance meets 6.5.2.4	notek
Exceptions:	Anbotek Anbotek	K Anbotek Anbotek		Anbotek
10° N	-nbo	otek Anbote Ans Lotek	Exceptions:	Anbore
1) earthing braids	ek N	abotek Anbotes Anb	1) earthing braids	Anbor
2) internal protective conductors etc.	wek N	hotek Anbotes Anbo	2) internal protective conductors etc.	ek an'





Page 14 of 51

		- LAO-	10000
Clause	Requirement – Test	Result - Remark	Verdict
Ann	TERMINAL suitable for expression of a	And sek anbotek	Aupo.
	TERMINAL suitable for connection of a PROTECTIVE CONDUCTOR, and meets 6.5.2.3	otek Anbo. Anbotek	Anbor
6.5.2.3	Protective conductor terminal	upotes Aupo	iek Ani
te. Mu.	a) Contact surfaces are metal	Anbote, And wotek Ar	botek P
boter	b) Appliance inlet used	Anboter And otek	Anbot P
	c) For rewireable cords and permanently connected equipment, protective conductor terminal is close to mains supply terminals	tek Anbotek Anbotek	Anborr Anborr
ek Anbor	d) If no mains supply is required, any protective conductor terminal:	botek Anbotek Anbot	ek Ant
botek	Is near terminals of circuit for which protective earthing is necessary	Anbotek Anbotek An	oote N
Anborek	External if other terminals external	Anbotek Anbo	Nek
Anbotek	e) Equivalent current-carrying capacity to mains supply terminals	ek Anbotek Anbotek	Notel
Anto	f) If plug-in, makes first and breaks last	poter. And otek Anbote	N Anb
otek And	g) If also used for other bonding purposes, protective conductor:	Arbotek Ant	lotek p
hotek	Applied first	An hotek Anboten	N _e k
Notek Potek	Secured independently	tk hotek Anbotek	Anb N
Ans	Unlikely to be removed by servicing	k hotek Anbotek	Z
V.V.	h) Protective conductor of measuring circuit:	poter Ann hotek Anbote	Nanbi
otek An	Current RATING equivalent to measuring circuit TERMINAL;	Anbotek Anbotek Anb	otek N A
borek	2) PROTECTIVE BONDING:	Anbotek Anboten A	N. O.
,botek	Not interrupted; or	k shotek Anboten	And N sek
	i) Functional earth terminals allow independent connection	otek Anbotek Anboten	Anbo
	j) If a binding screw used for PROTECTIVE CONDUCTOR TERMINAL:	Inbotek Anbore Am	Net P AT
*8K	Suitable size for bond wire	Anbo ek abotek A	ibole P
upo.	Not smaller than 4,0mm (No. 6)	Anbo. Lek aborek	Aupo P
Anbo,	At least 3 turns of screw engaged	k Wupo, W. W.	All Poles
Anbo.	Passes tightening torque test	otek Aupo, W. Potek	Panbot
tek Aupo	k) Contactpressure not capable being reduced by deformation of materials	upotek Anbotek Anbo	ek N Ari
6.5.2.4	Impedance of protective bonding of plug-	Anto k wotek An	N





Page 15 of 51

Clause	Requirement – Test	Result - Remark	Verdict
Aupore,	Aug Tek Wodek Wipo, W. Podek	ek Anbote Anb	anborek
	Impedance between PROTECTIVE CONDUCTOR TERMINAL and each ACCESSIBLE part where PROTECTIVE BONDING is specified, is:	optek Anbotek Anbotek Anbotek	k Anbor
* 6 K	less than 0,1 Ohm; or	Anbo sek abotek A	N N
Anbotek Anbotek	less than 0,2 Ohm if equipment is provided with non detachable cord	Anbotek Anbotek	AnborN abotek
6.5.2.5	Bonding impedance of PERMANENTLY CONNECTED EQUIPMENT	otek Anbotek Anbot	N Anbore
6.5.2.6	Transformer protective bonding screen	shooter Anbo	Bek N Ant
er Ant	Transformer provided with screen for protective bonding:	Anbotek Anbotek A	botek N
Anbotek Anbotek	screen bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses (see6.5.2.2 a)	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
ak Aupore	screen bonding with soldered connection (see 6.5.2.2 b) is:	potek Aupotek Vupo,	ek N Pup
otek n	- Independently secured against loosening	Ar Anbotek An	N
rek	- Not used for other purposes	Ant Anbotek	rupo, N
6.5.3	Supplementary insulation and reinforced insulation	tek Anbotek Anbotek	Anb P
Anbotel	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	potek Anbotek Anbot	P Anbo
6.5.4	Protective impedance	Anbore K Ann botek An	Dotek N A
upotek A	Limits current or voltage to level of 6.3.1 in NORMAL and to level of 6.3.2 in SINGLE FAULT CONDITION	Anbotek Anbotek	Anborek Anborek
Anborek	CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of DOUBLE or REINFORCE DINSULATION of 6.7	botek Anbotek Anbotek	Anbor
otek Anbo	The protective impedance consists of one or more of the following:	Anbotek Anbotek Ant	chek N Au
nbotek	a) appropriate single component suitable for safety and reliability for protection, it is:	Anbotek Anbotek	Anborek
Anboren	RATED twice the maximum WORKING VOLTAGE	tek Anbotek Anbotek	Ar Notek
Anbot	resistor RATED for twice the power dissipation for maximum WORKING VOLTAGE	Inbotek Anbotek Anbotek	N Ani
lek bu	b) combination of components	Pupotek Pupote Pup	botek N
otek.	Single electronic device not used asPROTECTIVE	abotek Anbotek	N.





Page 16 of 51

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Anbore	her work Williams Williams	ak Anbore And	anbore
6.5.5	Automatic disconnection of the supply	otek Anbotek Anbo	N
Anbo	a) RATED to disconnect the load within time specified in Figure 2	nbotek Anbotek Anbo	N
hotek Ar	b) RATED for the maximum load conditions of the equipment	Anbotek Anbotek A	botek N
6.5.6	Current- or voltage-limiting device	hotek Anbotes	Ant Nek
Am. "otek	Device complies with all of:	And Lotek Anborek	Anb.
Anbor	a) RATED to limit the current or voltage to the level of 6.3.2	hotek Wipotek Wipotek	N
ak An	b) RATED for the maximum working voltage; and	botek Anboren Anb	otek N
potek	RATED for the maximum operational current if applicable	Amborek Anborek Ar	AmboreN
Anbotek Anbote	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of SUPPLEMENTARY INSULATION of 6.7	ek Anbotek Anbotek	Ant N
3.6 Anto	Connections to external circuits	ek Anborer Anbo	Jek P
5.6.1	Connections do not cause ACCESSIBLE parts of the following to become HAZARDOUS LIVE in NORMAL CONDITION or SINGLE FAULT CONDITION:	And Anhorek Anborek	Imbotek Anbotek
Anbo	- the external circuits	and tek anbotek	PPOO
Aupe	- the equipment	potek Anbo sek abote	P _{An} l
Anb	Protection achieved by separation of circuits, or	upotek Aupon ek	otek P
stek p	short circuit of separation does not cause a HAZARD	Anbotek Anbotek	inbote ^k P
nek	Instructions or markings for each terminal include:	And Stek Anbotek	Anboic P
Aupa	a) Rated conditions for terminal	And wek abovek	NPON
Anbar	b) Required rating of external circuit insulation	lotek Anboy Al abote	Not
6.6.2	Terminals for external circuits	Aupotek Aupon by	Nek
tek Ar	TERMINALS which receive a charge from an internal capacitor are not HAZARDOUS LIVE after 10 s of interrupting supply connection	Anbotek Anbotek A	ibotek N
6.6.3	Circuits with terminals which are hazardous live	No such hazardous live terminals	Antrote
part (no	These circuits are:	ock botek Anbotes	D'Up,
Pur	Not connected to accessible conductive parts; or	hpor knotek Anbo	N
potek bu	Connected to accessible conductive parts, but are not mains circuits and have one terminal contact at earth potential	Anbotek Anbotek A	potek N





Page 17 of 51

Clause	Requirement – Test	Result - Remark	Verdict
Anbotek	Anbort Andrew Anborten And	k Nupotek Mupo,	Air. hotek
, upotek	No accessible conductive parts are hazardous live	rek Anbotek Anbote	N
6.6.4	Accessible terminals for stranded conductors	stek Anbotek Anbote	Nr For
tek vi	No RISK of accidental contact because:	inbo	N
stek	Located or shielded	And otek unbotek Ar	N
Anbotek	Self-evident or marked whether or not connected to ACCESSIBLE conductive parts	Anbotek Anbotek	Anborek
Anborek	ACCESSIBLE TERMINALS will not work loose	tek Aupotek Aupo	N
6.7 _{kn} bol	Insulation requirements	hotek Anbotek Anbo	8/4
6.7.1	The nature of insulation	hotek Anbotek Anbo	rek
6.7.1.1	Insulation between ACCESSIBLE parts or between separate circuits consist of CLEARANCES, CREEPAGE DISTANCES and solid insulation if provided as protection against a HAZARD	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
6.7.1.2	Clearances	otek Anbotek Anbote	Р
ak Aul	Required CLEARANCES reflecting factors of 6.7.1.1	Allerek Anbotek Anbo	otek P
Anbotek Anbotek	Equipment rated for operating altitude greater than 2000 m correction factor of Table 3 of 61010-1 applied	And Anbotek botek Anbotek	Anbotek
6.7.1.3	Creepage distances	ek Anbore An work	A.Roofe
k Aupore	Required CLEARANCES reflecting factors of 6.7.1.1	Sotek Anbotek Anbote	K P _{An} t
*ok	CTI material group reflected by requirements	Anb	P
o. ek	CTI test performed	Anbo. Lek abotek A	Wpose B
6.7.1.4	Solid insulation	Anbo. ak abotek	Anb N
Anbotel	Required CLEARANCES reflectingfactors of 6.7.1.1	otek Anbotek Anbotek	Note.
6.7.1.5	Requirements for insulation according to type of circuit	anbotek Anbotek Anbot	Ne'Y P
hbotek A	a) In 6.7.2 for mains circuits of overvoltage category II with a nominal supply voltage up to 300V	Anbotek Anbotek A	ibotek N
Anbore	b) In 6.7.3 for secondary circuits separated from the circuits in a) only by means of a transformer	Anbotek Anbotek	Pub Boyen
Anbo	c) In K.1 for mains circuits of overvoltage category III or IV or for overvoltage category II over 300V	nbotek Anbotek Anbote	N A
rek Ar	d) In K.2 for secondary circuits separated from the circuits in c) only by means of a transformer	Anbotek Anbotek Ar	potek P
'ba	e) In K.3 for circuits that have one or more of:	Amb K wotek	Anborn N

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Page 18 of 51

Clause	Requirement – Test		Res	ult - Remark		Verdic
Clause	Trequirement – rest	Anbotek	William Ires	Guit - Itemark	Pupote.	ALVEIGIC
Anbotek	maximum TRANSIE limited to known level b CIRCUIT			Anborek Anborek	anbotek Anbotek	N Ant
rek Ant	maximum TRANSIE above the level of MAIN		AGE	otek Ant	obotek And	botek N
Anbotek	WORKING VOLTAGE than one circuit or a mix		nore	Anbotek Anbotek	Anbotek	Anborn N
Anbotek Anbotel	4) WORKING VOLTAG peak voltage, may inclu non-periodic waveform	ude non-sinusoid		Anbotek Anbote	k Anborek	An N Anb
ek Aup	5) WORKING VOLTAG above 30 kHz	E with a frequen	cy Anto	otek Anb	hotek Anbu	potek N
6.7.2	Insulation for mains circui nominal supply voltage up		II with a	inbotek	Anbotek	AnboreN Notel
6.7.2.1	CLEARANCES and CRE	EPAGE DISTAN	CES	h. abotek	Anbore	Arra P
abotek	Values for MAINS CIRCU	JITS of table 4 are	e met	k abotel	Anbore.	P
k Aupo	Coatings to achieve reduce DEGREE I comply with re			lek Anbo	stek Anbor	otek PA
6.7.2.2	Solid insulation	Anbore		all park	upo, ok bu	note N
6.7.2.2.1	Withstands electrical and normal use and all RATE conditions of 1.4		sses in	, bořek Anbořek	Anborek	Anbo Nak
Anbotek k	Equipment passed voltag values of Table 5	e tests of 6.8.3 w	vith	Anboteh	rek Anbote	, N
Ans	Complies as applicable:	ik ab	Anbo	ye Mur	worek Anb	oren N
opotek Vi	a) ENCLOSUREor PROT Clause8	ECTIVE BARRIE	ER .	bote. Ar	Anbotek	nbotek N
Anbotek	b) moulded and potted pa 6.7.2.2.2	arts requirements	of No.	Anborek	Anbore.	Anbot
Anbor	c) inner layers of printed requirements of 6.7.2.2		Anbotek	ek Anbor	ek Anbotel	N _{an}
rek an	d) thin-film insulation requ	uirements of 6.7.2	2.2.4	dek an	ootek Anbr	N
5.7.2.2.2	Moulded and potted parts	An hotek A	aboter An	by Hely	anbotek p	Poor N
Anbotek Lotek	Conductors between sam separated by at least 0,4 completed		ng is	Anbotek Lotek	Anbotek	Anbore Anbore
6.7.2.2.3	Inner insulation layers of	printed wiring boa	ards March	K PUP	anborek	Nop
ek Ant	Separated by at least 0,4 layers	mm between sar	me two	otek Ant	otek Anbo	ek N
ootek I	REINFORCE DINSULAT electric strength; one of for			botek	Anbore. A	N





Page 19 of 51

101	tho, by	You you	
Clause	Requirement – Test	Result - Remark	Verdict
Anbo	Amore Amore	The Anbo Mek abotek	Aupore
Anbo.	a) thickness at least 0,4 mm	otek Aupo, Ar.	N
	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	nbotek Anbotek Anbo	lek N
botek Anbotek	c) insulation is assembled of minimum two separate layers, where the combination is rated for test voltage of Table 5 for REINFORCED INSULATION	Anbotek Anbotek Anbotek	Anborek Anborek
5.7.2.2.4	Thin-film insulation	ter Anburger	N _{po} ,
ek Anb	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES	Anbotek Anbotek Anbo	otek N An
nbotek	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	Anbotek Anbotek	Anbotek hotek
abotek	a) thickness at least 0,4 mm	ek abotek Anbote	An N
k Aupote	b) insulation is assembled of min two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	ootek Anbotek Anbotek Anbot	k N V
otek A	c) insulation is assembled of min three separate layers, where the combination of two layers passed voltage tests of 6.8.3 with values of Table 5 for REINFORCED INSULATION	Andrek Anbotek Antotek	unbotek Anbotek
6.7.3	Insulation for secondeary circuits derived from mains circuits of overvoltage II with a nominal supply voltage up to 300V	otek Anbotek Anbotek	Anb
6.7.3.1	Secondary circuits where separation from MAINS CIRCUITS is achieved by a transformer providing:	Anbotek Anbotek Anb	otek N p
work	- REINFORCED INSULATION	Anbotek Anbotek	N ^K
un otek	- DOUBLE INSULATION	An Lotek Anbotek	AnboN
Anborek	- screen connected to the PROTECTIVE CONDUCTOR TERMINAL	otek Anbotek Anbotek	N
5.7.3.2 xxxxx	CLEARANCES	hotek Anbores Anbo	ek P
stek An	a) meet the values of Table 6 for BASIC INSULATION and SUPPLEMENTARY INSULATION; or	Anbotek Anbotek Anb	ibotek P
Anbotek	twice the values of Table 6 for REINFORCED INSULATION	Anbotek Anbotek	Potek Anbotek
Anbor	b) pass the voltage tests of 6.8 with values of Table 6; with following adjustments:	hotek Anbotek Anbotek	Pobo
ek Anl	1) values forREINFORCED INSULATION are 1,6 times the values for BASIC INSULATION	abotek Anbotek Anbo	-otek P





Page 20 of 51

1001	The Tok Who, by, A	- WOLC VI.	186
Clause	Requirement – Test	Result - Remark	Verdict
Anb	2) if operating altitude is greater than 2000 m	And Lorek Anborek	P
Anbot	values of CLEARANCES multiplied with factor of Table 3	otek Anbotek Anbotek	lek Vupo,
hbotek An	3) minimum CLEARANCE is 0,2 mm for POLLUTION DEGREE 2 and 0,8 mm for POLLUTION DEGREE 3	Anbotek Anbotek And	botek N
6.7.3.3	CREEPAGE DISTANCES	anbotek Anbo	Prek
Anbotek Anbote	Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY INSULATION	tek Anbotek Anbotek	N Anbor
ek Ant	Values for REINFORCED INSULATION are twice the values of BASIC INSULATION	Anbotek Anbotek Anb	potek P
botek	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	Anbotek Anbotek	Anbotek hotek
6.7.3.4	Solid insulation	ek nbotek Anbote	N N
6.7.3.4.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	orek Anbotek Anbotek Anbot	k N Ant
otek A	a) Equipment passed voltage test of 6.8.3.1 for 5 s with VALUES of Table 6 for BASIC and SUPPLEMENTARY INSULATION	Andrek Anbotek An	inbotel N
Anbotek Anbotek	values for REINFORCED INSULATION are 1,6 times the values of BASIC INSULATION	ek Anbotek Anbotek	Anbote Anbote
Anboth Anbo	b) if WORKING VOLTAGE exceeds300 V, equipment passed voltage test of 6.8.3.1 for 1 min with a test voltage of 1,5 times working voltage for BASIC or SUPPLEMENTARY INSULATION	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N N And
upotek.	value for REINFORCED INSULATION are twice the WORKING VOLTAGE	k Anbotek Anbotek	AnboN hotel
abotek.	Complies as applicable:	tek abotek Anbote	N
, 100°	1) ENCLOSURE or protective barrier Clause 8	ok abotek Anbote	N
stek Ar	2) moulded and potted parts requirements of 6.7.3.4.2	Yupo, W. Vupolek Yup,	botek N A
abotek atek	3) inner layers of printed wiring boards requirements of 6.7.3.4.3	Anbotek Anbotek	Anbo'N-
Anb	4) thin-film insulation requirements of 6.7.3.4.4	Anbotek anbotek	MN
5.7.3.4.2	Moulded and potted parts	oten Anbo stek anbotek	Nabo
rek Anbo	Conductors between same two layers are separated by applicable distancesof Table 8	inbotek Anbotek Anbo	ek N M
6.7.3.4.3	Inner insulation layers of printed wiring boards	Aug Pek Potek M	N





Page 21 of 51

Clause	Requirement – Test	Result - Remark	Verdict
Anbo.	notek Ambolie Ame	ek Anbo. A. hotek	Aupole.
Anbore.	Separated by at least by applicable distances of Table 8 between same two layers	ootek Anbotek Anbotek	N Ambo
rek Ans	REINFORCED INSULATION have adequate electric strength; one of following methods used:	hupotek Augotek Augo	ek N N
notek	a) thickness at least applicable distance of Table 8	hotek Anbotes Ar	N
Anbotek	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION	Anbotek Anbotek	Anbotek Anbotek
ak Anbo	c) insulation is assembled of min two separate layers, where the combination is rated for 1,6 times the test voltage of Table 6	hotek Anbotek Anbo	N AT
6.7.3.4.4	Thin-film insulation	And Anbotek An	N
Anbotek	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES	Anbotek Anbotek	Anborek Anborek
Aupor	REINFORCED INSULATION have adequate electric strength; one of following methods used:	botek Anbotek Anbote	N An
ik Anl	a) thickness at least applicable distance of Table 8	Aupo, Ak	otek N
otek unbotek	b) insulation is assembled of min two separate layers, each RATEDfor test voltage of Table 6 for BASIC INSULATION	Ani k Amboriek Amboriek	unbotek Anbotek
Anbote	c) insulation is assembled of min three separate layers, where the combination of two layers passed voltage tests with 1,6 time values of Table 6:	bek Anbotek Anbotek Dotek Anbotek Anbotek	Anhor
-ok	a.c. test of 6.8.3.1; or	Anbo ak abotek Anb	N
nbotek	d.c. test of 6.8.3.2 for circuits stressed only by d.c. voltages	Anbotek Anbotek	nborek nborek
6.8	Procedure for voltage tests	ek Anbotek Anbote	Principole Contraction of the Co
6.9 Anbotel	Constructional requirements for protection against electric shock	hotek Anbotek Anbote	P
6.9.1	If a failure could cause a HAZARD:	Aupotek Aupon	Jek
ter b	a) Security of wiring connections	Anboren Anbo	ibotel ^k P
botek	b) Screws securing removable covers	Anborek Anbo	anbo'P ^K
Anbotek	c) Accidental loosening	ak Anbotek Anbo.	Brel
Anbotek	d) CREEPAGE and CLEARANCES not reduced below the values of basic insulation by loosening	otek Anbotek Anbotek	P
5.9.2	Material not to be used for safety relevant insulation:	hopotek Anbotek Anbo	ek N P
notek	Easily damaged materials not used	Anbotek Anbotek Al	N
*eX	Non-impregnated hydroscopic materials not used	And sek abotek	Anboi N ok

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Page 22 of 51

. otok	EN 61010-1	Pr. Stek Vilhoter	And
Clause	Requirement – Test	Result - Remark	Verdict
6.9.3	Colour coding	ok hotek Anbotek	N of
Anbo,	Green-and-yellow insulation shall not be used except:	anbotek Anbotek Anbot	polek Anbo
Yek An	a) protective earth conductors;	Anbotek Anbor An	botek N
bolek	b) protective bonding conductors;	Anborer Anbo	anbo'N
Anbotek	c) potential equilization conductors;	Anbotel Anbotek	Niek
Anborek	d) functional earth conductors	stek Anbotek Anbo	N Nove
6.10	Connection to mains supply source and connections between parts of equipment	Anbotek Anbotek Anbo	Jotek Ant
6.10.1	Mains supply cords	Anbore K Ans work	Anbotek
pote	Rated for maximum equipment current	Anbore k And	AnboteP
Anbore	Cable complies with IEC 60227 or IEC 60245	k Anbore And	anbPek
Anbore	Heat-resistant if likely to contact hot parts	orek Anborer Ann	K Noote
Aupote	Temperature rating (cord and inlet)	hotek Anboter Anti	N N N
ak Anb	Green-and-yellow used only for connection to protective conductor terminals	Allerek Anborek Ant	intotek P
abotek 1	Detachable cords with IEC 60320 mains connectors:	am. botek Ambotek	unbotek hotek
nbotek	Conform to IEC 60799; or	tek nbotek Anbore	Arra N Notel
, abotel	Have the current rating of the mains connector	tek nbotek Anbote	N
6.10.2	Fitting of non-detachable mains supply cords	ribo, pek apotek Aupr	-And
6.10.2.1	Cord entry	Anbo. Ak abotek A	upose, W
0, b	Inlet or bushing smoothly rounded; or	Aupo, W. V. Polisk	Anbore N
'upor	Insulated cord guard protruding >5D	Anbor All shotek	AUP ON
6.10.2.2	Cord anchorage:	tek Anbore Air hotek	Artooten
	Protective earth conductor is the last to take the strain	hotek Anborek Anbo	rel Nanbo
stek Ar	a) Cord is not clamped by direct pressure from a screw	Anbotek Anbotek Ar	potek N A
nbotek	b) Knots are not used	Anbotek Anbote	Nº Nº
Anbotek	c) Cannot push the cord into the equipment to cause a hazard	ek Anbotek Anbotek	Norek Anborek
Anbo	d) No failure of cord insulation in anchorage with metal parts	botek Anbotek Anbot	ek Nupo,
rek an	e) Not to be loosened without a tool	hotek Anbotek An	N P
botek	f) Cord replacement does not cause a HAZARD and method of strain relief is clear	Ambotek Anbotek	Arbon





Page 23 of 51

Clause	Requirement – Test	Result - Remark	Verdict
Aupore.	kun akek aupotek Aupo	k Aupote, Aur	anborek
Anboten	Push-pull and or torque test	otek Anboten Anb	N
6.10.3	Plugs and connectors	Lotek Anbotek Anbo	ek r
stek Ant	Mains supply plugs, connectors etc., conform with relevant specifications	Anbotek Anbotek Anbo	potek N
hote.	If equipment supplied at voltages below 6.3.2.a) or from a sole source:	Anbotek Anbotek	Anbo'N
Anborek	Plugs of supply cords do not fit mains sockets above rated supply voltage	lek Anbotek Anbotek	An N Anbote
Anboro	MAINS-type plugs used only for connection to MAINS supply	ibotek Anbotek Anbo	ek N put
botek p	Plug pins which receive a charge from an internal capacitor	Anbotek Anbotek Ar	bole N
nbotek	Accessory MAINS socket outlets:	Anbotek Anbo	Nek
Anbotek	a) Marking if accepts a standardMAINSplug (see 5.1.3e)	ek Anbotek Anbotek	Nanborel
ek Aupo	b) Input has a protective earth conductor if outlet has EARTH TERMINAL CONTACT	soret Anbotek Anbot	K N Anb
6.11	Disconnection from supply source	Ar Amborek An	*8 <u>/-</u>
6.11.1	Disconnects all current carrying conductors	Arr anbotek	Yupo, -ok
6.11.2	Exceptions	ntek anbotek	Aupon rel
6.11.3	Requirements according to type of equipment	Anno otek anbotek	bupo.
6.11.3.1	Permanently connected equipment and multi- phase equipment	potek Ambotek Anbote	NAnbi
otek Ar	Employs switch or circuit-breaker	hotek Anborer Ant	N
inposek K	If switch or circuit-breaker is not part of the equipment, documentation requires:	Anbotek Anbotek	anbotek
Anborek	a) Switch or circuit-breaker must be included in the installation	kek abotek Anbotek	Notes
t abot	b) Suitable location easily reached	ok potek Anbore	N
rok har	c) Marking as disconnecting for the equipment	rupo, by Protek Vup	N AC
6.11.3.2	Single-phase cord-connected equipment	Aupon Ku	abote.
upor	Equipment is provided with:	Anbor Ans Hotek	Aupolek
Anbore	a) Switch or circuit-breaker; or	e Aupon Pur Polek	AT Notes
Anbores	b) Appliance coupler (disconnectable without tool);	otek Anbors Ans Lotek	Nabot
Aupor	c) Separable plug (without locking device)	abotek Anboten Ano	ek N an
6.11.4	Disconnecting devices	abotek Anboiek Anb	otek
-otek	Electrically close to the SUPPLY	William Vibores V	N





Clause	Requirement – Test	Result - Remark	Verdict
Anbore.	Mun Mek Mpotes Aupo, W. Popla	Sk Aupore, Your	anbotek
6.11.4.1	Switches and circuit-breakers	otek Anboren Anbo	N
anbo	When used as disconnection device:	Lotek Anbotek Anbo	N N
rek a	Meets IEC 60947-1 and IEC 60947-3	in totek Anbotek Anbre	N N
otek	Marked to indicate function:	And notek Anbotek A	N
up atek	Not incorporated in MAINS cord	And otek anbotek	Anbo'N
Anbotek	Does not interrupt PROTECTIVE EARTH CONDUCTOR	tek Anbotek Anbotek	An'N
6.11.4.2	Appliance couplers and plugs	hotek Anboten Anbo	s/
lek tru	Where an appliance coupler or separable plug is used as the disconnecting device (see 6.11.3.2):	Anbotek Anbotek Anb	ootek -
botek	Readily identifiable and easily reached by the operator	Anbotek Anbotek	AnboteN Motek
Anbotek	Single-phase portable equipment cord length not more than 3 m	ek Anbotek Anbotek	An N Anbor
ak Aupor	Protective earth conductor connected first and disconnected last	potek Anbon Anbot	N N AN
-ok	aborek Anboran Armanek anarek	All k abotek An	oter
7	Protection against mechanical hazards	Ant ok botek	rupoter-
7.1 Anbotek	Equipment does not cause a mechanical HAZARD in NORMAL nor in SINGLE FAULT CONDITION	ek Anbotek Anbotek	Anbore Anbore
Aupo	Conformity is checked by 7.2 to 7.7	potek Anboth	Panb
7.2	Sharp edges	Anbotek Anbo. tek ank	otek P P
otek I	Easily-touched parts are smooth and rounded	Anborek Anbo	abote ^R P
Anborek	Do not cause an injury in normal use and	Aupotek Auro,	nbo P ^{/k}
Anborek	Do not cause an injury in single fault condition	ek Aupoisk Aupo.	Potel
7.3 March 10	Moving parts	otek Anbotek Anbote	- ~/00
	HAZARDS from moving parts limited to a tolerable level with the conditions specified in 7.3.2 and	inbotek Anbotek Anbati	tek N
7.3.1 Amb	7.3.5	abotek Anbo	- Otel
7.3.1 Anb		Anbotek Anbotek	Anboi N
7.3.1	7.3.5 RISK assessment in accordance with 7.3.3 carried	Anbotek Anbotek Anbotek	Anborek Anborek
nbotek A	7.3.5 RISK assessment in accordance with 7.3.3 carried out	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	N
nbotek A	7.3.5 RISK assessment in accordance with 7.3.3 carried out Exceptions: Access to HAZARDOUS moving parts permitted	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbore Anborek

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Page 25 of 51

York	Miles Miles	VION VIII	40.
Clause	Requirement – Test	Result - Remark	Verdict
Anbe	In Manual Andrew Andrew Andrew	Auga alpotek	Aupola
	b) If operator access is unavoidable outside normal use following precautions have been taken:	otek Anbotek Anbotek	N Anbo
tek Ant	1) Access requires TOOL	potek Aupores Ande	N Yell
hotek	2) Statement about training in the instructions	hotek Anbotes Ar	N
Anbotek	Warning markings on covers prohibiting access by untrained operators	Anbotek Anbotes	Ambotek Ambotek
Anbor	or symbol 14 with full details in documentation	lek Vupoy Y Votek	Nipos
7.3.3	Risk assessment for mechanical HAZARDS to body parts	abotek Anbotek Anbot	ek N Ani
botek F	RISK is reduced to a tolerable level by protective measures as specified in Table 12	Anbotek Anbotek An	N Spotek
anbotek	Minimum protective measures:	Anborek Anbo.	Nek
Anbotek	A. Low level measures	ek anbotek Anbotek	Note
Anbotel	B. Moderate measures	otek Anbotek Anbote	N
olo Ne	C. Stringent measures	ek Anborek Anbor	N Par
7.3.4	Limitation of force and pressure	All k mbotek Ant	N
anbotek P	Following levels are met in normal and single fault condition:	And botek Anbotek	inboar N
Anbotek	Continuous contact pressure below 50 N / cm² with force below 150 N	ek Anborek Anborek	Note
k Anbo	Temporary force below 250 N for an area at least of 3 cm² for a maximum duration of 0,75 s	potek Anbotek Anbote	Nanto
7.3.5	Gap limitations between moving parts	abotek Anbotes And	N _{leye}
7.3.5.1	Access normally allowed	Anbotek Anboter	N
	If levels of 7.3.4 exceeded and body part may be inserted minimum gap as specified in Table 13 assured in NORMAL and in SINGLE FAULT CONDITION	otek Anbotek Anbotek	Anborel Anborel
7.3.5.2	Access normally prevented	upotek Aupo tek apr	Net N N
otek An	Maximum gap as specified in Table 14 assured in NORMAL and in SINGLE FAULT CONDITION	Anbotek Anbotek A	ipotek N
7.4	Stability	And Lotek Anbotek	Anbo-
Anbotek	Equipment not secured to the building structure is physical stable	otek Ambotek Ambotek	An P
anboth Anboth	Stability maintained after opening of drawers, etc. by automatic means, or	nbotek Anbotek Anbo	ek N
otek bu	Warning marking requires the application of means	Anbors Anbotek Ar	poter N



Page 26 of 51

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Anbois	tek upodes Vulgar K Pod	ek Anbore kritistek	anbores
	Compliance checked by following tests as applicable:	optek Anbotek Anbotek	Anbo'
PUL	a) 10° tilt test for other than handheld equipment	Mpore And Otek Mpc	ISK N AT
hotek A	b) multi-directional force test for equipment exceeds height of 1 m and mass of 25 kg	Anbores Amborek Ar	ootek N
Anbotek	c) downward force test for floor-standing equipment	Anbotek Anbotek	Anbotek Anbotek
Anbore	d) overload test with 4 times maximum load for castor or support that supports greatest load	otek Anbotek Anbotek	N
ek bi	e) castor or support that supports greatest load removed from equipment	Anbotek Anbotek Anbo	potek N A
7.5	Provisions for lifting and carrying	unpotek Aupo ek	Nesodo
7.5.1	Equipment more than 18 kg:	k upotek Anbou	Nek
Anbotek	Has means for lifting or carrying; or	ook anbotek Anbot	N
anbot	Directions in documentation	stek shootek Anbote	Ñ
7.5.2	Handles or grips	ek nbotek Anbor	P
184	Handles or grips withstand four times weight	All k abotek Anl	Р
7.5.3	Lifting devices and supporting parts	And tek abolek	rupoter N
Aupon	Rated for maximum load; or	la rek społek	Anb N
Auporo	tested with four times maximum static load	Piek Vupos Wy Potek	Noote
7.6 Anbor	Wall mounting	dootek Aupon Andrea	k Anb
k Pul	Mounting brackets withstand four times weight	anbotek Anbote Anbote	otek N p
7.7	Expelled parts	anbotek Anbote Ant	hotek.
nborek	Equipment contains or limits the energy	nbotek Anbotes	N
hotek	Protection not removable without the aid of a tool	k hotek Anboien	N _{xe} V

8	Resistance to mechanical stresses		- Aur
8.1	Equipment does not cause a hazard when subjected to mechanical stresses in normal use	Anbotek Anbotek Anb	,botekP
upotek	Normal protection level is 5J	Considered 5J	P
Anbotel	Levels below 5 J but not less than 1 J are acceptable if all the following criteria are met	e Anbotek Anbotek	AL Nytek
Aup	a) lower level be justified by manufacturer	potek Aupon sek upotek	Nupore
-ok	b) cannot easily be touched by unauthorzed persons or the general public	Anbotek Anbo	ek N Anbi
- W	c) only occasional access during NORMAL USE	Aupo, ok Motek Wi	oote N P





Page 27 of 51

1-0/0	THE TOTAL AND	110/01 PUD	700
Clause	Requirement – Test	Result - Remark	Verdict
Anbe	d) IK code in accordance to IEC 62262 marked	and abotek	Auport
	or symbol 14 used with full information in the documentation	otek Anbotek Anbotek	Anbo
iek An	For non-metallic ENCLOSURES rated below 2 °C ambient temperature value chosen for minimum rated temperature	Anbotek Anbotek Anbo	botek N A
ho,	Impact energies between IK values, the IK code marked for nearest lower value	Anborek Anborek	Anbo'N
Ann	Conformity is checked by performing following tests:	tek anbotek Anbotek	Vupo.
	1) the static test of 8.2.1	ek shotek Anbote	Р
ek Ant	impact test of 8.2.2 with 5J except for hand- held equipment	hotek Anbotek Anbo	P PU
botek	If impact energy not selected to 5J alternate method of IEC 62262 used	Anbotek Anbotek An	N
Anbotek	3) drop test of 8.3.1 or 8.3.2 except for fixed and equipment with mass over 100kg	Anbotek Anbor	Anbotek
Anbore	Equipment rated with an impact rating of Ik 08 by that clearly meets the criteria	ek Anbore And	Anbore
	After the tests inspection with following results:	boten Anbe tak abot	ok - Aug
ok Anb	- Hazardous live parts above the limits of 6.3.2 not accessible	Arthor Anton An	otek N
	- insulation pass the voltage tests of 6.8	Ani	Netodok
Aupole	i) no leaks of corrosive and harmful substances	hote, Ann tek	nb P≥K
Anbotek	ii) Enclosure shows no cracks resulting in hazard	tek Aupoles Aupoles	Pote
Anbotel	iii) CLEARANCES not less than their permitted values	botek Anbotek Anbote	P Anb
k Anbo	iv) the insulation of internal wiring remains undamaged;	Anbotek Anbo hotek Anb	otek P
Die V	V) Protective barriers necessary for safety have not been damaged or loosened	Anborek Anborek	nbote N
upotek .	vi) No moving parts exposed, except permitted by 7.3	ok Anbotek Anbotek	Anb N
A hotek	vii) no damage which could cause spread of fire	nek mbotek Anbote	NP
3.2	Enclosure rigidity tests	nok Anborek Anbore	P
8.2.1	Static test	anbo. A. botek Anbr	P
7K V/L	- 30N with 12mm rod to each part of enclosure	Aupon Au Motek D	ibotel*P
hotek	- in case of doubt test conducted at maximum rated ambient temperature	Anborek Anborek	Anbo N
8.2.2	Impact test	Applied to enclosure with acceptable results	Anboi Anboi
Anbot	Impact applied to any part of enclosure causing a hazard if damaged	inbotek Anbotek Anbo	iek P An
r- 50	Impact energy level and corresponding IK code:	Vupou VIII	Poster, B



Ρ



Page 28 of 51

otek N	EN 61010-1	Anbotek Anbotek Anb	nbotek
Clause	Requirement – Test	Result - Remark	Verdict
Vupore.	And thek above Anbo hot hot	ek Anbore kno rek	anborek
	Non-metallic enclosure cooled to minimum rated ambient temperature if below 2°C	potek Anbotek Anbotek	Panbote
8.3	Drop test	Anboren Ann Motek Anbo	N Ant
8.3.1	Equipment other than HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	Anbotek Anbotek Ar	botek N
"otek	Test conducted with a drop height or angle of:	Anboten Anboten	Anbo Nek
8.3.2	HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	stek Anbotek Anbotek	Aubore,
Anbot	Non-metallic ENCLOSURES cooled to minimum RATED ambient temperature if below 2 °C	hotek Anbotek Anbot	ek P

9 nboile	Protection against the spread of fire		"upolek
9.1 _{px}	No spread of fire in normal and single fault condition	ek Anbotek Anbotek	Panbotel
PL Bur	Mains supplied equipment meets requirement of 9.6 additionally	ok Anbotek Anbot	otek Namb
otek	Conformity for each source of HAZARD or area of the equipment is checked by one of the following:	Arribert Anbores An	Inbotel P
Yupo.	a) Fault test of 4.4; or	ipo, ak Hotek	Anb P
Aupo,	b) Application of 9.2 (eliminating or reducing the sources of ignition); or	otek Anbotek Anbotek	Note:
k An	c) Application of 9.3 (containment of fire within the equipment)	Anbotek Anbotek Anbot	otek Paris
9.2	Eliminating or reducing the sources of ignition within the equipment	Anbotek Anbotek	nborek_
'un alek	a) 1) Limited-energy circuit (see 9.4); or	And otek Ambotek	AnboN .ek
Anbor	Insulation meets the requirements for BASIC INSULATION; OR	otek Anbotek Anbotek	N N
Ant	Bridging the insulation does not cause ignition	botek Anboter Anti	N N
rek.	b) Any ignition HAZARD related to flammable liquids (see 9.5)	No liquids used	ibotek N
,b070	c) No ignition in circuits designed to produce heat	Anbore An Morek	Anbolo
9.3	Containment of the fire within the equipment, should it occur	Anborek Anborek	Antorek
Vup	a) Energizing of the equipment is controlled by an operator held switch	nbotek Anbotek Anbote	ek N
ek p	b) ENCLOSURE is conform with constructional requirements of 9.3.1; and	Anbotek Anbotek A	potek P
po-	Requirements of 9.5 are met	Anbo. Ak społek	Anboth N

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Drop test conducted with an height of 1 m



Page 29 of 51

Clause	Requirement – Test	Result - Remark	Verdict
Vupos	Manual Annual An	ek Anbors Am Botek	Anborek
9.3.1	Constructional requirements	orek Anbore Anti-	-nbol
rek Anbo	a) Connectors and insulating material have flammability classification V-2 or better	Fire enclosure is made of metal and plastic flame rated V-0	ek P An
botek	b) Insulated wires and cables are flame retardant (VW-1 or equivalent)	Anbotek Anbotek A	Anborte.
Anboi	c) ENCLOSURE meets following requirements:	Anboy Al. botek	AnlPren
Aupo	1) Bottom and sides in arc of 5 ° (see Figure 13) to non-limited circuits (9.4) meets:	otek Anbotek Anbotek	Nipot
6k	i) no openings; or	shoo stek shotek Anbo	P
-tek	ii) perforated as specified in Table 16; or	Anbotek An	N
oo.	iii) metal screen with a mesh; or	Anbu kek abotek	AuporeN .
Anbo.	iv) baffles as specified in Figure 12	Anbo. Lek abotek	Anh Nie
Anbot	Material of ENCLOSURE and any baffle or flame barrier is made of:	Fire enclosure is made of plastic flame rated V-0	P
ak an	Metal (except magnesium); or	ek Anbotek Anbo	N N
orek	Non-metallic materials have flammability classification V-1 or better	Arilla k Anborek An	P
Anbotek	ENCLOSURE and any baffle or flame barrier have adequate rigidity	bofel Anbotek	Anb Pak
9.4	Limited-energy circuit	k hotek Anbotek	Puppe
K Ant	a) Potential not more than 30 r.m.s. and 42.4 V peak, or 60 V dc	porte Anbotek Anbotek	Namb otek
otek	b) Current limited by one of following means:	abotek Anbote, An	-otek-
-botek	1) Inherently or by impedance;	an abotek Anboten	N
botek	2) Over current protective device;	alk abotek Anboten	And N
Anbore	A regulating network limits also in SINGLE FAULT CONDITION	Botek Anbotek Anboten	Anbo
Anb.	c) Is separated by at least BASIC INSULATION	obotek Anbote Am	rek N
itek p	Fuse or a nonadjustable electromechanical device is used	Anborek Anborek And	ibotek
9.5	Requirements for equipment containing or using flammable liquids	No flammable liquids used	Anbo'N
Anbotek	Flammable liquids contained in or specified for use with equipment do not cause spread of fire	otek Anbotek Anbotek	N Ambo
Anbe	Risk is reduced to a tolerable level :	Anboten Anbo	lek bu
notek Ar	a) The temperature of surface or parts in contact with flammable liquids is 25 °C below fire point	Anbotek Anbotek A	botek N
rek	b) The quantity of liquid is limited	No such liquid used	Anbei N .k

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Page 30 of 51

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Aupore	bus stek supplies the transfer to the transfer	ek Aupore, Yun	anborek
Anbore	c) Flames are contained within the equipment	otek Anbotek Anbo	Nabote
k anbi	Detailed instructions for risk-reduction provided	sofek Anbotek Anbo	N N
9.6	Overcurrent protection	Anbotek Anbotek Anbo	N
9.6.1	Mains supplied equipment protected	And stek subotek Ar	N
Anbotek	Basic insulation between mains parts of opposite polarity provided	Anbotek Anbotek	Anbotek
Anboten	Devices not in the protective conductor	otek Anboten Anbo	Nabotel
Anbo	Fuses or single pole circuit-breakers not fitted in neutral (multi-phase)	Anbotek Anbotek Anbot	ek N prob
9.6.2	Permanently connected equipment	Anbore And otek an	poter N P
pole	Overcurrent device:	Anbores Anbo	NapoteN
Aupotek	Fitted within the equipment; or	k Anbotek Anbo	anbNe*
Anboten	Specified in manufacturer's instructions	olek Anborer Anb	Nootek
9.6.3	Other equipment	hotek Anbotek Anio	N N
ek no	Protection within the equipment	ek Anbotek Anbo	N N

10	Equipment temperature limits and resistance to	heat	TUP FOR
10.1	Surface temperature limits for protection against burns	ek Anbotek Anbotek	Anbore
k Anbore	Easily touched surfaces within the limits in NORMAL and in SINGLE FAULT CONDITION:	(see appended table)	e P _{Amb}
Pir.	- at an specified ambient temperature of 40 °C	Anbor Anborek Anb	N P
inbotek stek	- for equipment rated above 40 °C ambient temperature limits not exceeded raised by the difference to 40 °C	Anbotek Anbotek	nbotek Anbotek
Anbotel	Heated surfaces necessary for functional reasons exceeding specified values.	otek Anbotek Anbotek	Achor
k Aup	Are recognizable as such by appearance or function; or	Inbotek Anbotek Anbo	Net N
Die. b	Are marked with symbol 13	Anbore Ant Lotek	ipotek N
upoles	Guards are not removable without TOOL	Anbores And	anbo'N'
10.2	Temperatures of windings	Anbores And stek	nn b otek
Anboter	Limits not exceeded in:	otek Anbotet Anb	-000
Anbo	NORMAL CONDITION	hotek Anbotek Anbo	P P
tek ar	SINGLE FAULT CONDITION	hotek Anbotek Anbo	nek P
10.3	Other temperature measurements	(see appended table)	P
notek .	Following measurements conducted if applicable:	Aris botek Anbotek	Pupo

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Page 31 of 51

drotok	The videous sur	- Woley William	187
Clause	Requirement – Test	Result - Remark	Verdict
Anbe	L. V. C. O. O. O. C. C. H	Anbo F -botek	Anbore
Anbore	a) Value of 60 °C of field-wiring terminal box not exceeded	otek Anbore And botek	Anbo
Anbo	b) Surface of flammable liquids and parts in contact with this liquids	inbotek Anbor Anbo	ek N
	c) Surface of non-metallic enclosures	Anboter And	botek P
ibotek Lek	d) Parts made of insulating material supporting parts connected to mains supply	Anbotek Anbotek	Ambot N
10.4	Conduct of temperature test	Anbo, K kotek	An Pres
10.4.1	Tests conducted under reference test conditions and manufacturer's instructions	tek Auponen Aupotek	Panbo
10.4.2	Temperature measurement of heating equipment	above, Aug stek aupo	SK N W
St. Mu	Tests conducted in test corner	Anbores Anbo	botek N
10.4.3	Equipment intended for installation in a cabinet or wall	Anbotek Anbotek	AnboteN
Anborek	Equipment built in as specified in installation instructions	Anborek Anborek	PUP.
10.5	Resistance to heat	And And Anbotek	P _{/oo}
10.5.1	Integrity of CLEARANCE and CREEPAGE DISTANCES	ek Anbotek Arbot	P An
10.5.2	Non-metallic ENCLOSURES	Anhores Anh	Р
otek.	Within 10 min after treatment:	And otek anbotek	Pak
10.5.3	Insulating material	k wotek Anbotek	AMP P
Anbotel	a) Parts supporting parts connected to MAINS supply	potek Anbotek Anbotek	AP ant
k Anb	b) TERMINALS carrying a current more than 0.5 A	botek Anbore And	Rel P
otek p	Examination of material data, or	wholek Anborek Anb	P
notek	in case of doubt::	botek Anbotek	ings siek
hotek	1) Ball pressure test; or	k potek Aupotek	Amb P
MUN	2) Vicat softening testof ISO 306	pine sek abotek	P

11	Protection against hazards from fluids		- Aur
11.1	Protection to OPERATORS and surrounding area provided by EQUIPMENT	Anborek Anborek A	ipotek N
abotek	All fluids specified by manufacturer considered	k abotek Anbore	Nek
11.2	Cleaning	tak abotak Anbota	AMN Mel
11.3	Spillage	sek abotek Anbote	N
11.4	Overflow	hoose Anbo	N And
11.5	Battery electrolyte	Anbore And botak Ar	poter A
upola.	Battery electrolyte leakage presents no hazard	Anbore And Solek	Anbot N

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Page 32 of 51

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Anbore	Ante andores Ante	ek Anbore Ant	anborek
11.6	Specially protected equipment	brek Anborek Anbo	Nabote
11.7 mbo	Fluid pressure and leakage	botek Anbotek Anbo	ek - do
11.7.1	Maximum pressure	in otek anbotek Anbo	- Pr
nbotek	Maximum pressure of any part does not exceed P_{RATED}	Anbotek Anbotek Ar	N N
11.7.2	Leakage and rupture at high pressure	Anbotes And	Nick
Anboren	Fluid containing parts subjected to hydraulic test if:	tek Anboren Anborek	N _{Aribotel}
tek Au	a) product of pressure and volume > 200 kPal; and	horek Anborek Anbor	otek N And
	b) pressure > 50 kPa	Anbotek Anbote An	N
Anbotek	Parts of refrigerating systems meets pressure- related requirements of IEC 60335-24 or IEC 60335-24	ek Anbotek Anbotek	Anbolek Anbolek
11.7.3	Leakage from low-pressure parts	otek Anbotek Anbot	N N
11.7.4	Overpressure safety device	ek nbotek Anbor	- Burn
*ek	Does not operate in NORMAL USE	Ar k anbotek Ant	N
Anbotek	a) Connected as close as possible to parts intended to be protected	Am Anbotek Anbotek	inpotek
Anbotek	b) Easy access for inspection, maintenance and repair	ak Anborek Anborek	Notek
N AUD	c) Adjustment only with TOOL	pote And Lotek Anbote	Nanbo
YUS.	d) No discharge towards person	Anbore And And	stell N An
oter P	e) No HAZARD from deposit of discharged material	Anbore. And	nbotekN
Anborele	f) Adequate discharge capacity	Anboren Anb	nboN ^k
Anboiek	No shut-off valve between overpressure safety device and protected parts	ok Anbotek Anbotek	Notek

12	Protection against radiation, including laser solultrasonic pressure	urces, and against sonic and	Jek - Aug
12.1	Equipment provides protection	Ambores Ambores A	N.
12.2	Equipment producing ionizing radiation	Amborek Amborek	Anboro N .ek
12.2.1	Ionizing radiation	k kotek Anbotek	ANN
12.2.1.1	Equipment meets the following requirements:	ore And otek anbotek	Nupper
tek And	a) if intended to emit radiation meets requirements of 12.2.1.2; or	hbotek Anbotek Anbo	ek N Anb
hotek	tested, classified and marked in accordance to IEC 60405	Anbotek Anbotek Ar	Anbot N





Page 33 of 51

Clause	Requirement – Test	Result - Remark	Verdict
Anbore	Nun Hak "Upotejk Wupo, W. Postejk	k Aupore. Mun	aborek
Anbotek	b) if only emits stray radiation meets requirements of 12.2.1.3	otek Anborek Anborel	Nahot
12.2.1.2	Equipment intended to emit radiation	inbotes And Lotek Anbr	N An
Ve. Vu	Effective dose rate of radiation measured	Anbores And otek	botek N
hotek hotek	If dose rate exceeds 5 μSv/h marked with the following:	Anbotek Ambotek	Anbo'N nek
An. Motek	a) Symbol 17 (ISO 361)	-k hotek Anboten	P.M.N
Du.	b) Abbreviations of the radionuclides:	ie. And Potek Aupotek	N
Pur	c) With maximum dose at 1 m;or	Thore American	N An
ootek An	with dose rate value between 1 μSv/h and 5 μSv/h in m	Anbotek Anbotek Ar	botek N
12.2.1.3	Equipment not intended to emit radiation	Motel Anbotes	N _e k
Anbotek	Limit for unintended stray radiation of 1 µSv/h at any easily reached point kept	lek Anbotek Anbotek	Anbote Anbote
12.2.2	Accelerated electrons	potek Anbor An	ok N _M
ik Pup	Compartments opened only by the use of aTOOL	balek Anboten Ann	otel N
12.3	Ultra-violet (UV) radiation	Conformity test under consideration	anbotek.
Anborek	No unintentional and HAZARDOUS escape of UV radiation:	ek Anbotek Anbotek	Anb N
Anbote)	- checked by inspection; and	otek Anbotek Anbot	N
k anb	- evaluation of RISK assessment documentation	otek Anbotek Anbon	N N
12.4	Microwave radiation	Anto tek anbotek Ant	Dr. b
.ek	Power density does not exceed 10 W/m²:	Anbo tek anbotek	nbor N
12.5	Sonic and ultrasonic pressure	Aupo.	Aupola
12.5.1	Sound level	w Aupon by apotek	NN
Hupon	No HAZARDOUS sound emission	otek Anbo ak abote	Napo
itek Anbe	Maximum sound pressure level measured and calculated for maximum sound power level as specified in ISO 3746 or ISO 9614-1	Anbotek Anbotek Anb	hek N Ar
nbotek	Instruction describes measures for protection	Anborek Anbo	, soo'N
12.5.2	Ultrasonic pressure	Anbotek Anbo	New
Anborek	Equipment not intended to emit ultrasound does not exceed limit of 110 dB between 20 kHz and 100 kHz	otek Anbotek Anbotek	N Anbo
iek bu	Equipment intended to emit ultrasound:	abotek Anbotes And	otek N
notek	Outside useful beam does not exceed limit of 110	motek anboten A	N





Page 34 of 51

oter	EN 61010-1	Anbotek Anbo	nbotek
Clause	Requirement – Test	Result - Remark	Verdict
Anbore	My Mak "Upoles Wupo ak Mol	ek Anbolis Ans	anborek
	If inside useful beam above values exceeded:	otek Anbotek Anbo	N
k and	Marked with Symbol 14 of Table 1	otek Anbotek Anbo	N N
rek	and following information in the documentation:	bun stek vupotek Vupo	N
tek	a) dimensions of useful beam	Anto tek anbotek Ar	N
Wpo rek	b) area where ultrasonic pressure exceed 110 dB	Anbo tek nbotek	AnborN K
Anbo	c) maximum sound pressure inside beam area	Anbo sek abotek	ANN.
12.6	Laser sources	otek Aupon Min apotek	Nibote
Anbe	Equipment meets requirements of IEC 60825-1	Jootek Anbore Ane	ek N Anb
	Third and the state of the stat	100	

13	Protection against liberated gases, explosion ar	nd implosion	aboter
13.1	Poisonous and injurious gases and substances	No injurious gases	Nek
Aupotek	No poisonous or injurious gases or substances liberated in NORMAL CONDITION	lek Anbotek Anbotek	N
Anto	Attached data/test reports demonstrate conformity	botes And otek Anbot	N P
13.2	Explosion and implosion	Alfales Anti-	otek
13.2.1	Components	Anil Aniv tek	nbotek
Anbotek	Components liable to explode:	nbotek Amber	aborek
Anbotek	Pressure release device provided; or	ek Anbotek Anbo	No
Anbore	Apparatus incorporates OPERATOR protection (see also 7.7)	botek Anbotek Anbote	k N
Aur	Pressure release device:	Anbores And orek Ant	otek
ole.	Discharge without danger	Anbores And otek	nborekN
'upo _{ter}	Cannot be obstructed	Anbores Ant stek	NpoN ^k
13.2.2	Batteries and battery charging	k Anboter Anb	Nodina.
Anbote	If explosion or fire hazard could occur:	otek Anbotek Anbo	· - ·
Anb	Protection incorporated in the equipment; or	hotek Anboten Anbo	N N
stek p	Instructions specify batteries with built-in protection	Anbotek Anbotek Anb	ibotek N
hore	In case of wrong type of battery used:	Anbore And Lotek	Anbotek
Anbore	No HAZARD; or	Anbore Ann Lotek	N _{ye}
Anboter	Warning by marking and within instructions	Stek Anbote And	Nob
Anbo	Equipment with means to charge rechargeable batteries:	nbotek Anbotek Anbo	6x
ntek A	Warning against the charging of non-rechargeable batteries; and	Anborek Anborek Ar	poter N





Page 35 of 51

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Aupore	And Helt "Upoles Aupo, My Not	ek Aupores, Yun	anborek
Anborek	Type of rechargeable battery indicated; or	otek Anbotek Anbo	N
Anbo'	Symbol 14 used	notek Anbotek Anbo	N N
stek an	Battery compartment design	Anbotek Anbotek Anbo	N N
otek	Single component failure	And otek anbotek Ar	N
up	Polarity reversal test	And otek Anbotek	Anbo'N
13.2.3	Implosion of cathode ray tubes	No such device used	Vupo,
Anbo	If maximum face dimensions > 160 mm:	oter Anbotek	Fupo,
Vupo.	Intrinsically protected and correctly mounted; or	hbotek Anbo tek abot	ek N Anb
Aut Aut	ENCLOSURE provides protection:	Aupolek Aupo	ootek N p
botek	If non-intrinsically protected:	anbotek Anbote An	aborek.
Motek	Screen not removable without TOOL	k Anbotek Anbote	Nek
abotek	If glass screen, not in contact with surface of tube	ek abotek Anbot	N _{otel}

14	Components and subassemblies	ek anbotek Anbo	P P
14.1	Where safety is involved, components meet relevant requirements	Animak Anbotek An	opotek P Am
14.2	Motors	ibotek Anbo	abotek
14.2.1	Motor temperatures	ak anbotek Anbot	abotek .
Anbore	Does not present a HAZARD when stopped or prevented form starting; or	ootek Anbotek Anbot	N Anbore
ootek Ant	Protected by overtemperature or thermal protection device conform with 14.3	Anbotek Anbotek Ant	otek N Anb
14.2.2	Series excitation motors	hotek Anboter	orek .
Anbotek	Connected direct to device, if overspeeding causes a HAZARD	k Aupotek Aupotek	Anbotek Anbotek
14.3	Overtemperature protection devices	otek Anbore Am	· Nubote
K Anb	Devices operating in a SINGLE FAULT CONDITION	abotek Anbore Ann	net N anbr
jotek p	a) Reliable function is ensured	abotek Anbote And	nekN o
inbotek sek	b) RATED to interrupt maximum current and voltage	Anbotek Anbotek	AnborN-
Aupo,	c) Does not operate in NORMAL USE	Aupo, ok Piotok	AIT Notes
Anbo	If self-resetting device used to prevent aHAZARD, protected part requires intervention before restarting	nbotek Anbotek Anbotek	Nupotes,
14.4	Fuse holders	Anbotek Anbo	botek N Ar
nbotek	No access to HAZARDOUS LIVE parts	Anborek Anbo. Ak	Noon



Page 36 of 51

oter p	EN 61010-1	Anboten Anbo Anbo	nbotek
Clause	Requirement – Test	Result - Remark	Verdict
Aupore	And tek introver And	ek Aupore Mus	anborek
14.5	Mains voltage selecting devices	biek Anborek Anbo	N
L Anbo	Accidental change not possible	botek Anbotek Anbo	N N
14.6	Mains transformers tested outside equipment	Anbotek Anbotek	N N
14.7	Printed wiring boards	And otek anbotek Ar	N
Anbotek	Data shows conformity with V-1 of IEC 60695-11-10 or better; or	Anbotek Anbotek	Anborek
Anboren	Test shows conformity with V-1 of IEC 60695-11-10 or better	tek Anboren Anborek	Napore
lek bu	Not applicable for printed wiring boards with limited-energy circuits (9.4)	nbotek Anbotek Anbot	N And
14.8	Circuits or components used as TRANSIENT OVERVOLTAGE limiting devices	Anborek Anbore An	AnboreN
Anbotek	Test conducted between each pair of MAINS SUPPLY TERMINALS	ek Anbotek Anbotek	AntiN
Anbor	No HAZARD resulting from rupture or overheating of the component:	potek Anbotek Anbot	k N
ek Au	- no bridging of safety relevant insulation	Alba en Anba sek an	otek N A
otek	- no heat to other parts above the self-ignition points	Anil tek Anbotek	Anbore N

15	Protection by interlocks	bote. And otek anbotek	Pupo.
15.1	Interlocks are designed to remove a hazard before OPERATOR exposed	Anbotek Anbotek Anbote	Nanbo
15.2	Prevention of reactivating	Anbotek Anboten Ant	N
15.3	Reliability	an hotek Anboten	up.
Arm Lotek	Single fault unlikely to occur, or	K hotek Anbotek	And N rek
Vien Vien	Cannot cause a HAZARD	port Arm otek anbotek	N

16	HAZARDS resulting from application		Hek P Anbi
16.1	REASONABLY FORESEEABLE MISUSE	Anbores And And	ibotek N P
inposek	No hazards arising from setting not intended and not described in the instructions	Anborek Anborek	Anbo'N'
Anbotel	Other cases of reasonable foreseeable misues addressed by risk assessment	otek Anbotek Anboten	Anbotek
16.2	Ergonomic aspects	obotek Anbore. Am	ek P anbo
otek p	Factors giving rise to a HAZARD the RISK assessment is reflecting those aspects:	Anborek Anbores Aries	potek P Ar
nboten	a) Limitation of body dimensions	Anboten Anbo tek	anboit P

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Page 37 of 51

Clause	Requirement – Test	Result - Remark	Verdict
Aupore	And thek introfest Andrew total	Anbote. Anb	anborek
Anboier	b) Displays and indicators	otek Anboten Anbo	P 2000
	c) Accessibility and conventions of controls	hotek Anbotek Anbo	P
ek w	d) Arrangements of TERMINALS	in otek anbotek Anbo	P
rek	Anborek Anbor ak hotek Anbore	And otek anbotek Ar	100°
7	Risk assessment	Anb. tek nbotek	Anboi K
Anboyek	Rish assessment conducted, if hazard might arise and not covered by claused 6 to 16	Fully covered by clauses 6 to 16	An'N
K Anboi	Tolerable rish achieved by iterative documented process covering the following:	botek Anbotek Anbot	ek N
, bu	a) RISK analysis	Anbote Ans Ans	ootek N
ote	identify HAZARDS and estimate RISKS	Anbote, Ann otek	AnboteN
upoter	b) RISK evaluation	Anboren And	anb Nek
Anbotek	plan to judge acceptability of resulting risk level based on the estimated severity and likelihood of a rish	ek Anborek Anborek	N _{bot}
k Anl	c) Rish reduction	ak Anboic And	otek N
otek	Initial risk reduced by counter measures:	Anbore Ant	N
nbotek	Repeated risk evalution without new risks introduced	, botek Anbole	Anborek
Aupote	Risks remaining after risk assessment addressed in instruction to responsible body:	ek Anborek Anborek	Note of
anto.	Information contained how to mitigate these rishs	stek anbotek Anbore	N N
lek L	Following principles in methods of risk reduction applied by manufactuer in giver order:	Anbotek Anbotek Anb	N hotek
potek	1) RISKS eliminated or reduced as far as possible	Anbotek Anbo	N ^k
Anbotek	Protective measures taken for risks that cannot be eliminated	k Anbotek Anbotek	Anbore
Anb	User information about residual risk due to any defect of the protective measure	hotek Anbotek Anbotek	N _{nb}
ek p	Indication of particular training is required	hotek Anbover Anb	_{ke} kN
potek	Specification of the need for personal protective equipment	Anbotek Anbotek A	Anboten
Anbore, botek	Conformity checked by evaluation of the risk assessment documentation	Anbore Anborek	Am Notes

ANNEX F	ROUTINE TESTS	Anbotek	Aupor	projek	Anbo	-	Anb
por An	Manufacturer's declaration	botek	Anboro	An notek	24	poter N	P ₂





Page 38 of 51

4.4.2	Table: Summary of single fault condtions			stek anbotek P
Subclause	Titel	Not apply	Carried out	Comments
4.4.2.1	Single fault conditions not covered by 4.4.2.1 to 4.4.2.12	Wek X	Anbotek	Anboten Anbote
4.4.2.2	Protective impedance	X	Anbore	Ann Otok Ant
4.4.2.3	Protective conductor	botek	X,nbo	Aug-
4.4.2.4	Equipment or parts for short-term or intermittent operation	X	ik An	potek Anbotek
4.4.2.5	Motors	X pal	, o'-	Anbotek Anbotek
4.4.2.6	Capacitors	X	Nipole K	Anbote Anbote
4.4.2.7	Mains transformers	botek	X	k kołek Anb
4.4.2.8	Outputs	Anbotek Anbote	X	Short-circuit were applied to all outputs. No hazard.
4.4.2.9	Equipment for more than one supply	ant	Х	Anbotekbotek
4.4.2.10	Cooling	× X	upotek	Anbo botel
4.4.2.11	Heating devices	X	Anbotek	Aupon Mark
4.4.2.12	Insulation between circuits and parts	X	Napole	k Vupo. bu
Note:	botek Anboth Armatek	All	4 20	otek Anbor Ar

5.1.3 c)	TABLE: N	MAINS supply				No N
Anboten	Marked ra	ting (V)		in the second	'upoter Pu	lo-
Anbore	Number of	f phases		All: otek	Anboten	And
k Ant	Frequency	y (Hz)		. Hotek	Anisotek	Anbo
otek	Current (m	nA)	A Property of the Control of the Con	Arr. hotel	Anborek	Pul
work	Power (W)		ore Ann	stek - Anbot	or I
rus rosek	Power (VA	A)		nbore. And	Lotek - An	ootek
Test No	Voltage (V)	Frequency (Hz)	Current (A)	Power in (W)	Power in (VA)	Comments
	otek - onb		k -botek	Aupo-	Tek	Anbore An
Note(s):	otek o	nbotek Anbot	ok potel	Anboten	Anbo	anbotek Ar

5.3	TABLE: Durabili	ty of markin	gs		P ^k
	Marking met	hod (see note	e)	Ag	ent
1) Adhesi	ive label	Aupotek	Aupon A	A Water	Anbotek Anbotek
2) Ink prir	nted	Anbotek	Anbo,	B Isopropyl alcohol	70%
3) Laser r	marked	K Anbore	Anbo	C (specify agent)	ek abotek A
4) Filmco	ated (plastic foil cor	ntrol panel)	otes And	D (specify agent)	ek abotek





Page 39 of 51

		plicable include prarking is fixed.	rint method, label m	aterial, ir	nk or pain	t type, fixing meth	od, adhesive and
		Marki	ng location			Marking method (see above)
Aupo.	- Ider	ntification (5.1.2)	ole. Vila		19 ^{ek}	Yupo. W.	abotek Anbot
Anbo	- Maii	ns supply (5.1.3)	opole. Pur	e)k	Anbotek	Anbo.	abotek Ant
tek Mul	- Fus	es (5.1.4)	pobore And	Anbotel	Anbo.	abotek.	
ibotek otek	- Terminals, connections and operating devices (5.1.5)				1 Anbo	rek Anbor	k Anbotek
Ann	- Switches and circuit-breakers (5.1.6)				D'	no otek ant	Jotek Anbo.
Ann	- Dou	ble/reinforced equ	uipment (5.1.7)		ole.	And	inbotek Anbo
Anb	- Field	d-wiring TERMINA	AL boxes (5.1.8)	<i>.</i>	nboten	And	Anbotek Anb
Se Vue	- War	ning markings (5.	2)	wek:	1 _{Anboten}	Anb	anbotek
Metho	d	Test agent	Remains legible Verdict	Label Ver		Curled edges Verdict	Comments
Anbo	Anbor 1 Ar hotek		Amp otek	anbore	S PL	P	otek Plooter
Note(s):		ie. Vup.		10/4	Anbore Ans	.ek hotel	

Block diagram of the system	6	TABLE: Prot	ection aga	inst elec <mark>tr</mark>	ic shock					otek N	
Overvoltage installation category: III Location or description Insulation type (note 1)	potek Ar	Block diagram	of the sys	tem	All		- de	k Anbo	in the		
Location or description Insulation type (note 1) Insulation type (note 1) Insulation type (note 2) Insulation type (note 3) Insulation type (note 2) Insulation type (note 2) Insulation type (note 2) Insulation type (note 3) Insulation type (note 2) Insulation type (note 2) Insulation type (note 3) Insulation type (note 2) Insulation type (note 3) Insulation type (no	abotek	Pollution degr	ee	hote			3	botek Ar	pole		
Location or description type (note 1) working voltage (note 2) PWB CTI Other CTI mm Communication working voltage (note 2) PWB CTI Other CTI mm Communication working voltage (note 2) PWB CTI Other CTI mm Communication working voltage (note 2) Communication working voltage (note 2) Communication working voltage (note 3) ce (note 3) ce (note 3) mm Communication working voltage (note 2) Communication working voltage (note 3) ce (note 3) ce (note 3) working voltage (note 3) ce (note 3) working voltage (note 2) Communication	abotek	Overvoltage in	nstallat <mark>ion o</mark>	category	161	:	, III	nbotek	Vupo.co.		
NOTE 1 – Type of insulation: BI = BASIC INSULATION DI = DOUBLE INSULATION (note 2) PWB CTI Other CTI mm (note 2) NOTE 2 – Types of voltage Peak impulse test voltage (pulse) r.m.s. NOTE 3 – INSTALLATION CATEGORIES (OVERVOLTA CATEGORIES) or POLLUTION		type	working	Cree	page dist	ance (no	ote 3)	ce (note	voltage	Comme	nts
BI = BASIC INSULATION DI = DOUBLE INSULATION Peak impulse test voltage (pulse) CATEGORIES (OVERVOLTA CATEGORIES) or POLLUTION		(note 1)		PWB	CTI	Other	CTI	mm	(note 2)		
BI = BASIC INSULATION DI = DOUBLE INSULATION Peak impulse test voltage (pulse) CATEGORIES (OVERVOLTA CATEGORIES) or POLLUTION	lotek Anl	ov h	hotek.	Anil	Vien	4ek-	anbeh	-Alupo		hotek-	
RI = Reinforced INSULATION peak should be shown under "Comments".	BI = BASIC DI = DOUBI PI = PROTE RI = Reinfor	INSULATION LE INSULATIC ECTIVE IMPEC rced INSULATI	PN DANCE ION		se test vo r.m.s. d.c.	oltage (p	ulse)	CATEGOR CATEGOR DEGREES should be s	IES (OVER IES) or PO which diffe hown unde	RVOLTAG LLUTION or from the	

6.2	TABLE: Determination of accessible parts							
ľ	tem	Description	Determination method	Exception under 6.2.1				
Anbotek	Anborek Anborek	Examination	The jointed test finger (see figure B.2) is applied in every possible position	Anbote Anbote Anbote				
Note(s):	otek Aupo	tek abotek Anbi	ore. And worker and	Jotek Anbo tek				





Page 40 of 51

6.5.2.4	TABLE: Impedan	TABLE: Impedance of protective bonding of plug-connected equipment								
ACCESSIB	BLE part under test	Test current (A)	Voltage attained after 1 min (V)	Result						
Aupor	Ar. botek Ar	boten And	Anbotek - Anbo	Anbotek Anboten						
Note(s):	k hotek	Anboten Anbo	anbotek Anbot	ok spotek Aupote						

	equipment						
ACCESSIB	LE part under test	Voltage atta	ined (s)	Time for voltage below allowable		Res	ult
bu. Potek	Anboten An	otek -	nbotek	Anboy	hotek	Anboren	Anbu
Note(s):	Anbotek	Anbo	anbotek	Anbore	All botek	Anbotek	Anbo

6.7	TABLE: Ins	sulation re	equirements		ootek N Ar	
8	Resistance	to mecha	nical stresses	botek Anboti	Ann	anboteN
10.5.1	Integrity of CLEARANCES and CREEPAGE DIST			TANCES	k antNek	
	Location		initial CREEPAGE DISTANCE (mm)	Initial CLEARANCE (mm)	Maximum working voltage (V)	Comments
ek ar	potek Aupr	-ok	botek bote	V Jok	Anbatek	iupo sak
Note(s):	Anbotek A	upo.	And Andrew	All	k nnbotek	Anbo.
	cal tests, e (N)	Static	Dynamic	Drop test, normal	Drop test, hand- held	Comments
abotek	- Anbott	Ame	an reli	And Lak	sbotek Anbote	And
Note(s):	anbore.	An	ntek nnbotek	Anbou	botek Anbi	Pure Vie

6.8 TABLE:	Dielectric strength	tests for protection	against the sprea	ad of fire	P
Location	Working voltage (V)	Test voltage (V)	Result	Comme	nts
Input to accessible part	tek Anbotek	DC 500V	tek PAnbotek	Anbotek P	Anbotek
VI.	yn or repeated flash	over shall occur	nbotek Anbote	k Anbotek	Arth

6.10.2 TABLE: Cord	anchora	ge tests				otel-N
Location	Mass kg	Pull N	Verdict	Torque Nm	Verdict	Comments
Anbotek Anbo	- botek	Aup	7. P.	work- An	lotek - Yupo	rek - abotek
Note(s): No cord provided	h 4/001	lek b	nbole	And	Anbotek Anb	sek spotek





8	TABLE: Resistance to mechanical stresses						
Llocatio	on	Static	Dynamic	Drop test, normal	Drop test, hand-held	Result	Comments
Enclosu	ire	upotek P	Pass	abotek_ p	ipole - Au	Pass	Potek Yupo.

Note(s): 1). 30N applied by the hemispherical end of a hard rod of 12 mm diameter

- 2). 50mm diameter steel sphere with a mass of 500g impact from position of 1m height
- 3). dropped once through a distance of 1 m on to a 50 mm thick hardwood board having a density of more than 700 kg/m³.

9	TABLE: Protection against the spread of fire			Poorek
Item	Source of hazard or area of the equipment considered (circuit, component, liquid etc.)	Protection method (9a, 9b, 9c)	Protection details	Comments
Plastic parts	bolek Anbote Am	9a	nborek	Anbore Ar
Note(s):	nbotek Anbote K Anbotek Anbotek	Vupo.	mbotek	Anbore

9.3.1	TABLE: Containment of fire within the equipmen	nt	Noose
14.7	Printed wiring boards	opotek Aupo, ok botek	N _M bo
y Aup.	Material tested:	Beeck Anborn Ann	
otek p	Generic name:	Aupore Au	
abotek	Material manufacturer	botek Anbote	
abotek	Type designation:	ek nbotek Anbote	
photek	Colour:	tek abotek Anbote	
k 200	Conditioning details:	por Anbore	
rek bu	Thickness (mm):	1nbot tek abotek Anb	
	inhotek Anhotek Anhotek	3 -	
Anbotek Anbotek	Duration of flaming after first application (s):	1 - 2 - 3 -	
hotek Ann	Duration of flaming plus glowing after second application (s):	1 – 2 – 3 -	
Anbotek Anbotek	Specimen burns to holding clamp (Yes/No):	1 - 2 - 3 - Market Annual Control of the Control of	
ek Aupon	Cotton ignited (Yes/No):	1 - 2 - 3 -	

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9.4	TABLE: Limited-energy circuit Test details: 1 –Location; 2 – maximum voltage r.m.s./dc.(V); 3 – maximum current (A); 4 – maximum power(VA); 4 – overload protection after 120s(A); 5 – circuit separation; 6 – decision(Yes/No); 7 – comments							
1	2	3	4	5	6	7		
yer - An	- Lotel	PL/po/	b ***	abeter	Plup K	work-		
Note(s):	Anbore. And	ik vupose	Aupo,	Pr. Potek	Anbore	Ann		

Page 42 of 51

9.5	TABLE: F	TABLE: Requirements for equipment containing or using flammable liquids					
Anbo		ils: 1 –Type of liquid ontainment); 4 – cor	uid; 2 –flammable liquids (b. quantity); 3 – flammable comments				
1		2	3	4			
V	1000	bu.	otek Anto	711.			

10	TABLE:	Temperature	measurements			P
10.1	Surface to	emperature lir	mits - NORMAL COM	NDITION and / or SIGN	NLE FAULT CONDITION	Nooth P Ame
10.2	Tempera	ture of winding	gs- NORMAL CONDI	TION and / or SIGNLE	FAULT CONDITION	Antore N An
10.3	Other ten	nperature mea	asurements	anbo Anh	ak hotek	inbote P
Operating of	conditions:	Normal work	ing	no iel	or An hotek	
Anboro					rupois by	ke _K
Anbore	Duration ((h, min)		1	hour 50 mir),, _o tel
k Aupo	0.7			10 (AE)	Aupore A	
jotek Al	Ambient t	emperature T	a (°C)	: 28°C	K Anboro	
Anborek Anborek	maximum		Tm + 40°C – Ta (°	asured temperature °C); 4 – maximum al		ed
1		2	3	4	5	6
PCB MADO	YOK DU	anbotek-	57.1	100	Anboten An	anbotek Anb
Terminal	botek	Anbotek k	55.6	120	ek Anborek	Anbotek A
Enclosure	Anbotek	Anbore.	46.5	120	botek P Anbotek	Anbore
Transforme	er Anbor	Fek Vip	64.8	110	Anbotek P Anbo	sek Anbatel
Note(s):	ek Anb	o. P.	abotek Anbote	k Ann Lotek	anbotek an	o. b.



Page 43 of 51

10.2	TABLE: Tem	perature of res	sistance me	thod temper	ature measu	rements	lootel ^k N P
4.4.2.7	Mains Transf	ormers	upor	Vie.	Anboten	Anbo	noo'N
14.2.1	Motor temper	atures	Vuposo.	Vu.,	Anbotek	Anbo.	K Neek
Operating of	conditions:	abotek.	Aupore	K WOL	ek Anborr	Yupo.	.eX
Anbot	Frequency (H	z)	- Aupor	Vin	otek Ant	otek Anb	0
rek an	Duration (h, m	nin)	iek huj	bose. 'Vi	hour	anbotek min	upo .
otek	Voltage (V)	00, 50	potek	,: 1	Arra work	Anbotek	P.C.
-otek	Ambient temp	erature Ta ₁ /Ta	₁₂ (°C)	Anbores.	Ann	°C(initial/fina	I)
Anbotek		s: 1 – part/desi 7 – result; 8 – co		R _{cold} Ω; 3 – F	$R_{warm}\Omega;4-Tr$	· (K); 5 – T _c (°C	C); Anbu
1	2	3	4	5	6	7	8
lek Pup	101 VIII.	otek Anto	er - Ani	rek-	botek - I	100, K	rotek- ar

Note(s): 1 - Rcold = initial resistance; Rwarm = final resistance; Tr = temperature rise; Tc = Tr corrected (Tc= Tr - { Ta2 - Ta1} + [40 °C or max rated ambient]); Tmax = maximum permitted temperature

Note(s): 2 – Indicate insulation class (IEC 85) under comments (optional)

Note(s): 3 – Record values for normal condition and / or single fault condition in this Form use additional form if necessary

10.5.2	TABLE: Resistance to	heat of non-metallic encl	osures	otek P p
lotek l	Test method used:	Anbaran An	See below	
abotek	Non operative treatmen	nt	. [V] botek Anboy	Pek
nbotek	Empty ENCLOSURE		· [\lambda]	Protek
nbotel	Operative treatment	10000	· Let Anborek Anbore	k bu
	Part	Test temperature (°C)	Duration (h, min)	Verdict
rok.	Enclosure	125	Anbo 1h botek Ant	P
2, b	Dielectric strength test	(6.8)	. 500 V r.m.s./peak/d.c	inboke P
Note(s): No	hazardous live parts shal	ll be accessible	Anbotek Anbotek	Anboren
10.5.3	TABLE: Insulating mate	rials		P
10.5.3a)	Ball pressure test	tek shotek Ar	bote And Lotek Anbote	Pinbo
Ann	Max. allowed impressio	n diameter	2 mm	otek - Ar
	Part	Test temperature (°C)	Impression Diameter (mm)	Verdict
boten	Terminal	125	Anbore 1.1 And tek	anbo'P'
Anboten	PCB	125	ek Anbotel 1.1 Anbotek	Botek
Anboten	Enclosure	125	1.3	Popor
Note(s): No	hazardous live parts shal	ll be accessible	anbotek Anbotek Anbo	rek an
10.5.3	TABLE: Insulating mate	rials		notek N
10.5.3b)	Vicat softening test (ISC	O 306)	anbotek Anbote A	N
	Part	Vicat temperature (°C)	Thickness of sample (mm)	Verdict





Product Safety

Donort	NIA	100500	C00074	EO.
Report	INO.	18250S	CUUU/4	วบ

1.7	018	VUD	You	100,	200	0,00	VIST
0,01	DUD	Yan	20070	Dir.	noto.	OLIDA	Non
0	Note:	Moore	Dir.	hoter		rek	100,
Nieta (a)	DUPE	*ek	Sport	Dir.	moter.	AUDO	*ek
Note(s):							
Yes							

11	TABLE: Protection against hazards from fluids							Nupo,		
ek And		Measurements: 1 – location; 2 – cleaning; 3 – spillage; 4 – overflow; 5 – equipment plus liquid; 6 – working voltage (V); 7 – test voltage (V); 8 – result; 9 – comments								
1	2	3	4	5	6	7	8	9		
-4/	- Stek	PUPO.	p	4 100	DU.		- otek	Pupo.		

11.7.2	TABLE: Leaka	ge and rupture at	high pressure	!		ek N Pupe
Part	Maximum permissible working pressure (Mpa)	Test pressure (Mpa)	Leakage test Yes / No	Burst test Yes / No	Com	ments
Ann otek	Anbotek	Anbo. A	-botek- Ar	oote. Anv	otek nobo	sk -Aupo.
Note(s):	iek anbotek	Anborn	hotek	-botes Ar	up otek or	potek Aupo
11.7.3	TABLE: Leaka	ge from low-pres	sure parts			otek N Ar
poter An	Measurements:	1 - ; 2 – (Pa); 3 –;	4 -	Anter	Ann	upotek
	Part	Test pressi	ure Leal	(age (Yes/No)	Com	ments
Anboten	Anboatek		ao'i	ootek- Anbot	te. Pup.	ar Anbotek
Note(s):	Anbo	otek	Anbore An	hotek An	boten And	atek anboth

12.2.1	TABLE: Ioniz	zing ra <mark>dia</mark>	tion				N
L	ocation	Measur	ed values µSv/h	n Verdi	ct	Comr	nents
lun Olek	Anbotek	Anbo.	k abotek	Anbore	Yun Utek	anbotek	- Anbo.
Note(s):	k Anbotek	Anbore	An above	k Aupoles	Aug Wek	anbotek	Aupon
12.5.1	TABLE: Sou	nd level n	easurements				Nanbr
	Location		Measure	ed values dBA	Cald	culated maximu pressure lev	
botek	Pupote. V.	Viek Viek	nnbotek	Pupo, br.	botek	Anbore	Yun Utek
Note(s):	Anborer	Anbo	upotek	Aupo, A	botek	Anborer	Aupa
12.5.2	TABLE: Ultra	asonic pre	essure measure	ements			ANN
L	ocation		Measured v	alues		Comments	
			dB	kHz			
n 54	-otek Pi	potek	-Vupo	abotek Anbo	but but	wotek	nbotek
Note(s):	Ann	anbotek	Anbore	hotek A	hbore	Ans	anboyek

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13.2.2	TABLE: Batteries tes	sts			N ^c	
Anbotek	Battery load and char	ging circuit diagram	ina Man	potek Anbo.	-ok	
Motek	Battery type	Batek bupates Vur	. orek	Anborek Anb	No.	
Anbot	Battery manufacturer	Notes P	n ntek	anbotek A	rupo,	
rek no	Battery model	Pr. Popoles	Pur Wek	nbotek	Anbe	
stek	Battery catalogue No.	by, Morek Mopoles,	Ano	k vupotek	P ₂	
nbo	Battery ratings	W. Waley Wopoley	· Vupo	rek anbotel	k:	
Aubo.	Reverse polarity insta	Iment test	len Vup	otek nabi	ANN ANN	7.4
Single	component failures		Verd	ict	·	
	Component	Open circuit, resu	lt	Short circ	cuit, result	
lek Aul	botek shotek	Anbore Arie	Anbotek	Anbo	abotek	P.3
Note(s):	Anbo. Lak abotek	Anbore Ans cotek	Anbote	k Aupon	abotek	

14.1	TABL	E: Components		, 1917 - , 1917 - , 1917 - , 1917 - , 1917 - , 1917 - , 1917 - , 1917 - , 1917 - , 1917 - , 1917 - , 1917 - ,	P _{hotek}
Object/par	t No.	Manufac- turer/trademark	Type/model	Technical data	Mark(s) of conformity
Se. Vun	rek	anbotek Ar	po, ok	Alba en Anb stek And	potek An
poter Ar	lp.	hotek	Anbore de ho	Aniar Anus siek	abotek
Anbotek	AUDO	rek anborek	lipo, K W	lek Josef Anburgek	anbotek
Note(s): 1) a	an aste	risk indicates a marl	k which assures the agi	reed level of surveillance	nbotek

14.3	TABLE: Ove	rtemperature	protection de	vices			ack N
Reliability te	est:						
Com	ponent	Type(se	ee note)	Verdict		Comn	nents
run Potek	Anbotek	Aupo,	A. abotek	Anbore. Ani	Lotek	Anbotek -	Aupo.
Note(s):	Anbotek	Ambo	hotek	Anbore	YUN WEK	anbotek	Anbo.

NSR = non-self-resetting (10 times)

NR = non-resetting (1 time)

SR = self-resetting (200 times)

14.6	TABLE: Mains transformers tested outside equipment				
Aupo	Type:	All Andrew Andrew Andrew			
Yun VPO	Manufacturer:	ore American Amborek			
iek Ar	Temperature protection class of the lowest RATED winding (class or maximum RATED temperature):	Anbotek Anbotek Anbo			
botek	Winding identification:	Anbotek Anbot A			





Page 46 of 51

		Short circuit	Over load
Anbore	Elapsed time:	1s	Lotek 1s Anbotek
Anbore	Current, primary (A):	otek Anbote	And Lotek Anbote
Anboy	Current, secondary (A):	abotek Anbote	And work Ant
an'	Winding temperature, primary (°C):	abotek Anbote	And
otek	Winding temperature, secondary (°C):	Anborek Anbor	An <u>u</u> otek
botek	Tissue paper/cheesecloth test:	bi. Polsk Vu	John And otek
An.	Voltage test:	v otek	Anboien Anbo



































***** End of Report ****