

Report No.: 18250SC10016701

Test Report

Client Name : Acrel Co., Ltd.

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

Product Name : ADW

Date : Apr. 09, 2021



Shenzhen Anbotek Compliance Laboratory Limited

Shenzhen Anbotek Compliance Laboratory Limited





TEST REPORT

EN 61010-1

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

Report reference No:	18250SC10016701
Compiled by:	Sanko Chen Jeff Zhu
Approved by:	Jeff Zhu Joff Zhu
Date of issue:	Apr. 09, 2021
Contents:	51 pages
Testing laboratory	Shenzhen Anbotek Compliance Laboratory Limited
Address:	1/F, Building D, Sogood Science and Technology Park, Sanwei
untek anborek Anbor P	community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong,
be tek subotek Anbore	China.518128
Testing location:	Same as above
Applicant	Acrel Co., Ltd.
Address:	No.253, Yulv Road, Jiading District, Shanghai, China
Test specification	nboter Anotek Anbotek Anbotek Anbotek Anboter
Standard:	
Test procedure:	LVD test report
Type of test object	hotek Anboten Ano tek nootek Anbor At
Description	ADW
Trademark:	Acrel
Model/type reference: Manufacturer: Address	ADW300, ADW300W, ADW210-D10-1S, ADW210-D10-2S, ADW210-D10-3S, ADW210-D10-4S, ADW210-D16-1S, ADW210-D16-2S, ADW210-D16-3S, ADW210-D16-4S, ADW210-D24-1S, ADW210-D24-2S, ADW210-D24-3S, ADW210-D24-4S, ADW210-D36-1S, ADW210-D36-2S, ADW200-D10-3S, ADW200-D10-4S, ADW200-D10-1S, ADW200-D10-2S, ADW200-D16-3S, ADW200-D16-4S, ADW200-D24-1S, ADW200-D16-2S, ADW200-D24-3S, ADW200-D24-4S, ADW200-D36-1S, ADW200-D36-2S, ADW200-D36-3S, ADW200-D36-4S, ADW220-D10-1S, ADW200-D36-2S, ADW200-D36-3S, ADW200-D36-4S, ADW220-D10-1S, ADW220-D10-2S, ADW220-D10-3S, ADW220-D10-4S, ADW220-D10-1S, ADW220-D10-2S, ADW220-D16-3S, ADW220-D10-4S, ADW220-D16-1S, ADW220-D16-2S, ADW220-D16-3S, ADW220-D16-4S, ADW220-D16-1S, ADW220-D16-2S, ADW220-D24-3S, ADW220-D24-4S, ADW220-D36-1S, ADW220-D36-2S, ADW220-D36-3S, ADW220-D24-4S, ADW220-D36-1S, ADW220-D36-2S, ADW220-D36-3S, ADW220-D36-4S Jiangsu Acrel Electrical Manufacturing. Co., Ltd. No.5, Dongmeng Road, Nanzha Street, Jiangyin City Jiangsu Province, China Same as manufacturer
Address	Same as manufacturer
Rating:	Power: AC/DC 85-265V
botek Anbote Anv	Measuring Voltage input:3x230/400V; 3x57.7/100V; 3x380/660V;
otek suboten Anbu	Measuring Current input: 3x5(6)A; 3x20(100)A; 3x80(400)A; 3x120(600)A

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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com

Anbotek Product Safety

Test item particulars	
Pollution degree	In hotek Anbotek Anbor tek subotek
Protection degree	Class II equipment
Operating conditions:	Continuous operation
Connection to supply mains:	None
Special protection to IEC 60529:	IP20
Possible test case verdicts	nboten Anbotek Anbotek Anbotek
- 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	tek Anbotek Anbo
Date of receipt of test item:	Mar. 25, 2021
Date(s) of performance of test:	Mar. 25, 2021 to Apr. 07, 2021
with the start with the start of the start o	

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.

Notes: All models are same except for model name.

Copy of marking plate

ADW Model No: ADW210 Power: AC/DC 85-265V Voltage input:3x230/400V Current input: 3x100A

Made in China Jiangsu Acrel Electrical Manufacturing. Co., Ltd. No.5, Dongmeng Road, Nanzha Street, Jiangyin City Jiangsu Province, China

Importer: XXX Address: XXX

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Anbotek Product Safety

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Clause	Requirement – Test	Result - Remark	Verdict
Anbore	hotelt Anboles Anbr the subolt	ek Anborto Ano hotek	Anbotek
4.4 Min 1010	TESTING IN SINGLE FAULT CONDITION	otek Anboro An-	P
4.4.1	Fault tests	abotek Anbote, And	P
4.4.2	Application of fault conditions	And Anbotek Anboten And	Р
4.4.2.1	Single fault conditions not covered by 4.4.2.1 to 4.4.2.12	Anbotek Anbotek A	Nupoter-
4.4.2.2	Protective impedance	Anbote, Ant otek	N
4.4.2.3	Protective conductor	otek Anboten Anbo	Nibot
4.4.2.4	Equipment or parts for short-term or intermittent operation	hbotek Anbotek Anbo	ox N an
4.4.2.5	Motors	Anbors Ans wotek An	po ^{ser} N
4.4.2.6	Capacitors	Anbote, Anountek	anbot N
4.4.2.7	Mains transformers	Anbotek Anbo	Per
4.4.2.7.2	Short circuit	otek Anboten And stek	Noot
4.4.2.7.3	Overload	notek Anboter Ano	N N
4.4.2.8	Outputs	hotek Anboten Antro	P
4.4.2.9	Equipment for more than one supply	Ann hotek Anbotek An	Р
4.4.2.10	Cooling	Ant Lotek Anboten	N N
4.4.2.11	Heating devices	k sotek anbotek	Anton N
4.4.2.12	Insulation between circuits and parts	k kotek Anbotek	P
4.4.2.13	Interlocks	poter Ante otek onbote	< NAUD
4.4.2.14	Voltage selectors	Anboten And niek and	N P
4.4.3	Duration of tests	Anboten And	nbote ^K P
4.4.4	Conformity after application of fault conditions	Anboten Anbo	- PK
Anbotek	Antoo tek obotek Antoot Att	ek Anboten Anbo	nbotel
5 Anbotek	Marking and documentation	Lotek Anbotek Anbo	P
5.1.1	General	wotek Anbotek Anbo	Р
stek of	Required equipment markings are:	und untek anbotek Anb	- walt
otek	Visible:	And otek Anbotek A	P
noverek	From the exterior; or	Ante stek onbotek	Anbo P
Anbo	After removing a cover; or	en photok photok	Ň
Aupor	Opening a door	opten Andrew tek abotek	Ņabo
Anbo	After removal from a rack or panel	Inbotek Anbo pek abo	^{еж} N рб
rek An	Not put on parts which can be removed by an operator	Anborek Anborek A	loote ^k N
100	Letter symbols (IEC 60027) used	Artist	Anboter P L

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Clause	Requirement – Test	Result - Remark	Verdict
Anbore	housek anborek Anbor as anot	anbolie Ant hotek	Anbotek
Anboten	Graphic symbols (IEC 61010-1: Table 1) used	otek Anbote. Anv Lotek	P
5.1.2	Identification	abotek anboten Anbo	Ko
telt pr	Equipment is identified by:	to botek poboten pro	Р
Natek	a) Manufacturer's or supplier's name or trademark	Ant notek Anbotek Al	P
no otek	b) Model number, name or other means	Ann otek Anbotek	Anbo P
Anburgtek	Manufacturing location identified	And ntek Anbotek	MP
5.1.3	Mains supply	oter Andratek Anbotek	Hopon
Puppo	Equipment is marked as follows:	nboten Anbo riek nabo	ok Ant
er pol	a) Nature of supply:	Anboten Anbo tek	potek
potek	1) a.c. rated mains frequency or range of frequencies	Anborek Anborek	AnbottP
Anu	2) d.c. mark with symbol 1 of Table 1	And wotek Anbotek	Р
Anu	b) Rated supply voltage(s) or range	ter Anu otek Anbotek	Ploor
Ano	c) Max. rated power (W or VA) or input current	boten And stek mbot	P Anb
otek I	The marked value not less than 90 % of the maximum value	Anbotek Anbotek An	ote ^k N P
hotek	If more than one voltage range:	An hotek Anboten	N Nex
	Separate values marked; or	k hotek Anboten	Anbo
Anthote	Values differ by less than 20%	Ant hotek Anbotek	N
Ann	d) Operator-set for different rated supply voltages:	poter Anti-	Aup
Anu	Indicates the equipment set voltage	Anbote, And And	otek N P
oter P	Portable equipment indication is visible from the exterior	Anbotek Anbotek	nbote ^K N
hotek	Changing the setting changes the indication	k hotek Anboten	And
Anbotek	e) Accessory Mains socket-outlets accepting standard MAINS plugs are marked:	otek Anbolek Anbolek	A <u>nb</u> o Anbo
k propo	With the voltage if it is different from the mains supply voltage	Anbotek Anbotek Anb	re ^k N pr
- CK	For use only with specific equipment	Anbo kek abotek A	N ^{Noore} N
Anbotek	If not marked for specific equipment it is marked with:	Anborek Anborek	Anbotek
Anbotek	The maximum rated current or power; or	stek unbotek Anbor	N
abo	Symbol 14 with full details in the documentation	stek subotek Anbois	N
5.1.4	Fuses	nbo hek abotek Anbo	Р
hotek	Operator replaceable fuse marking (see also 5.4.5):	Anbois Anbotek Ar	N

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Clause	Requirement – Test	Result - Remark	Verdict
anbotek.	Antipoten Antipoten Antipoten Antipoten	ek hopotek hopot	put
5.1.5	Terminals, connections and operating devices	otek unbotek Anboat	P
5.1.5.1	General	otek Anbotek Anbote	Р
tek Anl	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators marked	Anbotek Anbotek Anb	potek P
Lotek.	Insufficient space, symbol 14 used	k hotek Anbotek	Anna N.ex
Anbotek	Push-buttons and actuators of emergency stop devices and indicators:	tek Anbotek Anbotek	Anbor Anbor
Aupore	used only to indicate a warning of danger or	abotek Anboten Anto	ex N ant
ek Anb	the need for urgent action	botek Anboien Anbo	N N
ootek 1	coloured red	Ante Anboren Ar	N
botek	coded as specified in IEC 60073	Antotek Anbotek	Net
Anbotek	Supplementary means of coding provided, if meaning of colour relates (see IEC 60073):	nek Anbolek Anboles	Anno Anbote
Aupon	to safety of persons; or	botek Anbon An	ek N prit
sk Anbr	safety of the environment	subotek Anbots And	otek N
otek p	Indication of emergency stop devices	anbotek Anbots An	N
5.1.5.2	Terminals	- nbotek Anbote	Ann wonsk
obotek	Mains supply terminals identified	ek pobotek Anbolo	Note
A shotek	Other terminal marking:	rek abotek Anbote	Ann
4	a) Functional earth terminals (symbol 5 used)	poor her poorek Anbor	Nem
reft hu	b) Protective conductor terminals:	Anbo, tak abotek Ant	P
o, p	Symbol 6 is placed close to or on the terminal;	Anbo, pr.	nbote P
nbon	Part of appliance inlet	Anborn ek ubotek	Anto N
Anbor	c) Terminals of control circuits(symbol 7 used)	ek Anbor Ar bokek	Noter
Anbois	d) Hazardous live terminals supplied from the interior	potek Arbon An	- Aupo
elt de	Standard mains socket outlet; or	unbo lek nbotek Anb	N
vek h	Ratings marked; or	Anbut tek pobotek	N N
hbo.	Symbol 14 used	Anbo, tek abotek	Anbon
5.1.6	Switches and circuit-breakers	anborn print potek	ArNoter
Aupor	If disconnecting device, off- position marked	optek Anboli ak hotel	Nabo
Anbor	If push-button used as power supply switch:	nbotek Anborn And	N N pr
iek pul	Symbol 9 and 15 used for on-position	subotek Anborn An	notek N
otek	Symbol 10 and 16 used for off-position	stek unboto A	N

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Clause	Requirement – Test	Result - Remark	Verdict
Anbotek	hando h. handolek Anbole Anti-	k Anbotek Anbo	nboret
anbotel	Pair of symbols 9, 15 and 10, 16 close together	otek anbotek Anbo	N
5.1.7 proto	Equipment protected by double insulation or reinforced insulation	nbotek Anbotek Anbo	le ^k N
Yer A	Protected throughout (symbol 11 used)	Anbote, Ann otek M	lo ^{otek} N
boter	Only partially protected (symbol 11 not used)	Anboten And atek	NtootN
5.1.8	Field-wiring terminal boxes	No such parts	Nobotek
Anboten	If terminal or enclosure exceeds 60°C:	hek Anboten Anbo	N
anbo	Cable temperature rating marked	hotek Anbotek Anbo	N
ek pr	Marking visible before and during connection or beside terminal	Anbotek Anbotek Anbo	po ^{tek} N
5.2	Warning markings	Anboto Ans wotek	anbotek
Anboto	Visible when ready for normal use	Anbotes Anbo	Pek
Anboter	Are near or on applicable parts	rek Anboler Anbo	Phot
Anbot	Symbols and text correct dimensions and colour:	hotek Anbotek Anbo	Р
K AN	a) symbols min 2,75 mm and text 1,5 mm high and contrastingin colour with background	Anbotek Anbotek Anbo	otek P
ototek	b) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and	Anbotek Anbotek	unboter P
Anbotek	0.5 mm depth or raised if not contrasting in colour	ek Anbotek Anbotek	Anborr
Aupon	If necessary marked with symbol 14	potek Anbole Ant	Pant
Ant Ant	Statement to isolate or disconnectif access byusing a tool to HAZARDOUS LIVE parts is permitted	Anbotek Anbotek Anb	otek P
5.3	Durability of markings	Anbotek Anbot .ek	P
Anbotek	The required markings remain clear and legible in normal use	(see appended table)	Anbote
5.4	Documentation	joten Anton otek Anbote	400
5.4.1	General	unboron Andro otek unbr	P
hotek p	Equipment is accompanied by documentation for safety purposes for operator or responsible body	Anbotek Arbotek A	tbote ^K P
Anbotek	Safety documentation for service personnel authorized by the manufacturer	6 Anbotek Anbotek	Anbore
Anboro	Documentation necessary for safe operation is provided in printed media or	otek Anborek Anborek	Panbo
ek br.	in electronic media if available at any time	nbo tek abotek Anbo	Р
4 Mar	Documentation includes:	Anbo, tek stotek Ar	bon
00,0	a) Intended use	Anber Astrony	Anthone P

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Clause	Requirement – Test	Result - Remark	Verdict
Anbore	Ann Anboles Anboles Anbo	ek Anbols Ant Abotek	Anboten
Anbote	b) Technical specification	potek Anbote Ans hotel	Popoter
Anbo	c) Name and address of manufacturer or supplier	abotek Anbote Anu	P notor
ek 45	d) Information specified in 5.4.2 to 5.4.6	Ant Anbotek Anbotek Anb	Р
potek	e) Information about how to mitigate risks remaining	Antotek Anbotek A	P P
Anboten	f) accessories for safe operation of the equipment specified	Anboten Anbotek	AmPrek
Aupol	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 Anbo	P ^{abo} tek Anbo
otek	h) Instructions for lifting and carrying (see 7.5)	Anbotek Anbo tek	Notot
Anbotek	Warning statements and a clear explanation of warning symbols:	Anbotek Anbo	AnbBiek
Ann	Provided in the documentation; or	ore" And otek unbotek	N
And	Information is marked on the equipment	abotes Anto stek habot	N Anbo
.4.2	Equipment ratings	Anboter Anbo	potek - Ani
oten	Documentation includes:	Anboten Anbo	obotek
nbotek	a) Supply voltage or voltage range	Anbotek Anbo	Р
anbotek	Frequency or frequency range	tek anbotek Anbo	Notek
Anbote	Power or current rating	otek anbotek Anbou	N bott
Anb	b) Description of all input and output connections in accordance to 6.6.1 a)	Anbotek Anbotek Anbo	prek P Ant
hotek I	c) Rating of insulation of external circuits as required by 6.6.1b)	Anbotek Anbotek	Anbote ^K N
Anbotek	d) Statement of the range of environmental conditions	Ambient temperature: 5℃~40℃	Anb P Anbotek
Pupo	e) Degree of ingress protection (IP, IEC 60529)	IPX0	Punbole
Pup	f) Impact rating less than 5 J	Anbotek Anboi Ali	otek P Anb
er p	IK code in accordance to IEC 62262 marked or	anbotek Anbor All	toote ^M N p
potek	symbol 14 of table 1 marked, with	Anbotek Anbor I	P
anbotek	RATED energy level and test method stated	ek anbotek Anbots	N
.4.3	Equipment installation	otek unbotek Anbore	- hotel
a abo	Documentation includes instructions for:	atek anbotek Anbote	alt - wa
alt de	a) Assembly, location and mounting requirements	Anbotek Anbotek Anbo	Р
.tell.	b) Protective earthing	Anton Jok abotek A	N
, ⁰ ,	c) Connections to supply	Anbo pi	anboten P



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Clause	Requirement – Test	Result - Remark	Verdict
anbotek	habor Ar botek Anboter Anti-	at hobotek pobo	All
anbotek	d) Permanently connected equipment:	stek unbotek Anbore	
- nbot	1) Supply wiring requirements	otek subotek Anbore	N
telk An	2) If external switch or circuit-breaker, requirements and location recommendation	Anborek Anborek Anbo	botek N
ibotet.	e) ventilation requirements	Anbotet Anbo tek	N
Anbotek	f) special services (e. g. air, cooling liquid)	anbotek Anbo	N
anbotek	g) Instructions relating to sound level	hek anbotek anbo	N
5.4.4	Equipment operation	untek unbotek unbon	ak
ok ont	Instructions for use include:	no otek unbotek Anbo	
potek	a) identification and description of operating controls	(see user manual)	P
nibotek	b) Positioning for disconnection	anbotek Anboir	Net
- abotek	c) Instructions for interconnection	ek nbotek Anbote	P
hote	d) Specification of intermittent operation limits	(see user manual)	Р
Ar 10	e) Explanations of symbols used	born ak spotek Anbor	PAR
with the	f) Replacement of consumable materials	Anbor Ak abotek Ant	N
201 P	g) Cleaning and decontamination	Anbon At Abovek	unbote N
Anbon	h) Listing of anypoisonous or injurious gases and quantities	Anboile Antoniek	Anto N
Anbotel	i) RISK reduction procedures relating to flammable liquids (see 9.5)	potek Anbotek Anbotek	N
tek Anbr	j) RISK reduction procedures relating burn from surfaces permitted to exceed limits of 10.1	Anbotek Anbotek Anb	o ^{tek} N p
nbotek	Additional precautions for IEC 60950 conforming equipment in regard to moistures and liquids	Anborek Anborek	nbote Nk
Anbotek	A statement about protection impairment if used in a manner not specified by the manufacturer	k Anbotek Anbotek	Ann Notek
5.4.5	Equipment maintenance and service	otek Anbore An-	babo
Anbo	Instructions for responsible body include:	shotek Anbote An	10K 101
stek pr	Instructions sufficient in detail permitting safe maintenance and inspectionand continued safety:	Anbotek Anboten Anb	botek P
nbotek	Instruction against the use of detachable MAINS supply cord with inadequate rating	Anbotek Anbo	P ^k
Anbor	Specific battery type of user replaceable batteries	K Aupor han apolek	AnBoten
Anbois	Any manufacturer specified parts	otek Anbor Ar	Pobo
Anbot	Rating and characteristics of fuses	motek Anbors An	e [≫] P
rek pri	Instructions include following subjects permitting safe servicing and continued safety:	Anborek Anbore Ant	potek P
	a) product specificRISKSmay affect service personnel	anbote Anto	P.

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Clause	Requirement – Test	Result - Remark	Verdict
Anbor	And stek anboten Anbo ak ho	ek Anbort An	stek suboten
	b) protective measures for theseRISKS	otek Anboten Ar	P bott
K bob	c) verification of the safe state after repair	hotek anbotek	And P
5.4.6	Integration into systems or effects resulting from special conditions	Anbotek Anbotek	Anbo N h
nboten	Aspects described in documentation	Anboten Anbo	N ^{bot} N

6 suboter	Protection against electric shock		wote
6.1	General	untek unbotek Anbote	24 <u>400</u>
6.1.1	Requirements	notek anbotek Anbo	walk
botek	Protection against electric shock maintained in NORMAL CONDITION and SINGLE FAULT CONDITION	Comply with requirement	P
Anotek	ACCESSIBLE parts not HAZARDOUS LIVE	at botek Anbotet	Anter P atel
Anbot Anbot	Voltage, current, charge or energy below the limits in NORMAL CONDITION and in SINGLE FAULT CONDITION between:	botek Anbotek Anbotek	P
ABK	ACCESSIBLE parts and earth	And tek sabotek An	N
Anbotek	Two ACCESSIBLE parts on same piece of the equipment within a distance of 1,8 m	Anbotek Anbotek	Anbolt P
Anboren	Conformity is checked by the determination of 6.2 and 6.3 followed by the tests of 6.4 to 6.11	ek Anboren Anborek	Pore
6.1.2	Exceptions	both Anboth Anboth	- Aller
otek P	Following HAZARDOUS LIVE parts may be accessible to an OPERATOR:	Anborek Anbolek Ant	N Pr
Anbotek	a) parts of lamps and lamp sockets after lamp removal	Anbotek Anbor	AnboN*
Anbo	b) parts to be replaced by operator only by the use of tool and warning marking	otek Anbotek Anbotek	P.N.
K Anbr	Those parts not hazardous live 10 s after interruption of supply	Anbotek Anbotek Anbo	tek N pril
oter p	Capacitance test if charge is received from internal capacitor	Anbotek Anbotek A	nbote ^k N
6.2	Determination of accessible parts	Anbotek Anbotes	Anon-dek
6.2.1	General	work whotek Anboter	And
Anbo	Unless obviously determination of accessible parts as specified in 6.2.2 to 6.2.4	nbotek Anbotek Anbote	P ^{rite} Ant
6.2.2	Examination	anborek Anbora An	notek P
botek	- with jointed test finger (as specified B.2)	botek Anboth A	Р

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Clause	Requirement – Test	Result - Remark	Verdict
Jiause	Requirement – Test	Result - Remark	Verdici
Antotek	- with rigid test finger (as specified B.1) anda force of 10 N	otek Anbotek Anbotek	Panbo
6.2.3	Openings above parts that are hazardous live	No openings	iek N Ar
notek Ani	- 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	Ant hotek Anboten	Ant Niek
Anbotek	- test pin with length of 100 mm and 3mm in diameter applied	prek Amborek Amborek	AnN Anbot
3.3 problem	Limit values for accessible parts	stootek Anbote Ant	ok - ant
6.3.1	Levels in normal condition	botek Anboten Anos	Ne ^M P
potek p	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	AnboltP
Anboi	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	Anbortek Anbotek	prit N ^{ter}
anbotel	Voltages are not HAZARDOUS LIVE the levels of:	stek sobotek Anbot	per-
otek Anbr	 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 Anbot	otek N Am
Inpotor	for wet locations measuring circuit A.4 used	Anboron & Ano	AnbNeh
Anboro	c) Levels of capacitive charge or energy less:	ek Anboren Ann otek	Note
Anboten	1) 45 μ C for voltages up to 15 kV peak or d.c. or line A of Figure 3	botek Anbotek Anbote	e N _{Anb}
stek pr	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	Anbotek Anbotek Anb	obotek
5.3.2	Levels in single fault condition	Anbotek Anbor	P.K
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	Potel
Anbo	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	otek Anbotek Anbotek	N.ob ^c
tek an	Voltages are notHAZARDOUS LIVEthe levels of:	ant otek anbotek Anb	ret-
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	And Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
Aupon	for wet locations measuring circuit A.4 used	otek Anbort Ant	Nabo
Anbor	c) Levels of capacitive charge or energy less:	nbotek Anbots Anb	N N
ek Ant	1) 45 μC for voltages up to 15 kV peak or d.c. or line A of Figure 3	Anborek Anboren Anbo	botek N

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Clause	Requirement – Test	Result - Remark	Verdict
Anboten	Ando tak antiotek Antione Anti	ek Anbuket Anbo	nbotek
Anbotek	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	otek Anbotek Anbo	N
6.4	Primary means of protection	Inboten Ann otek anbo	P AN
6.4.1	ACCESSIBLE parts prevented from being HAZARDOUS LIVE by one or more of following means:	Anbotek Anbotek A	Anbotek P
Anbotek	a) ENCLOSURES or PROTECTIVE BARRIERS (see 6.4.2)	rek sobotek Anbotek	AnPton
abol	b) BASIC INSULATION(see 6.4.3)	tek nbotek Anbort	Р
.e. 40	c) Impedance (see 6.4.4)	anboi Ali abotek Anboi	N
6.4.2	Enclosures and protective barriers	Anboi tek sobotek An	Р
bor	- meet rigidity requirements of 8.1	Anbo vek sobotek	Anboro N
Anbou	- meet requirements for BASICINSULATION, if protection is provided by insulation	ek Anbotek Anbotek	An'N'
anbot ek Ant	- 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 Anbor Anbotek Anbotek Anbor	N And
6.4.3	Basic insulation	Anbor Ar botek	nbote P
Anbois	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	Anborek Anborek	AnbPen
6.4.4	Impedance	tek abotek Anbote	N
k pup	Impedance used as primary means of protection meets all of following requirements:	Anbotek Anbotek Anbot	N ^{Ame}
otek I	a) limits current or voltage to level of 6.3.2	Anbotek Anbo	obote ^N N
Inbotek	b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate	Anbotek Anbo	AnboNK
	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7	otek Anbotek Anbotek	PN ^{O1}
6.5	Additional means of protection in case of single fault condition	unboitek Anbotek Anb	hen hi
6.5.1	ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of:	Anbotek Anbotek Anbotek	Anbotok
Anbotek	a) PROTECTIVEBONDING(see 6.5.2)	stek subotek Anboro	P
a abo	b) SUPPLEMENTARYINSULATION (see 6.5.3)	stek unbotek Anbore	Р
lek bi	c) automatic disconnection of the supply (see 6.5.5)	Anborek Anborek Anbo	N N
botett	d) current-or voltage-limiting device (see 6.5.6)	abotel Anborr A	N

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Clause	Requirement – Test	Result - Remark	Verdict
anbotek	Anbor An Hotek Anboren Anu	ek hobotek hobo	potek
Anbotek	Alternatively one of the single means of protection is used:	otek Anbotek Anbotek	N Anbot
Aug	e) REINFORCED INSULATION(see 6.5.3)	inboten Anbo	lek N An
ter Ar	f) PROTECTIVE IMPEDANCE (see 6.5.4)	Anbotek Anbo	bote ^K N
3.5.2	Protective bonding	Anbotet Anton tek	- abotely-
6.5.2.1	ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION:	hek Anbotek Anbotek	Anbertek
Anbot	Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or	hotek Anbole And	ok Ant
potek	Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL	Anbotek Anbotek Ar	porc N
6.5.2.2	Integrity of protective bonding	anbotek Anbur	abotek.
	a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses	potek Anbolek Anbo Dotek Anbolek Anbolek	N Anto
, alt	b) Soldered connections:	Anbo, ak botek An	oter 1
	Independently secured against loosening	Anbor Ar botek	unbote N
Anbors	Not used for other purposes	Anboit An hotek	AntoN
Anboro	c) Screw connections are secured	lek Anborn Am hotek	Noote
Anbore	d) Protective bonding not interrupted	potek Anbore Ant	6 N _{an} b
k Anb	exempted as removable partcarries MAINS SUPPLY INPUT connection	Anbotek Anbotek Ant	otek N P
nbotek	e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4	Anbotek Anbotek Anbotek	nbore N Anborek
Anto	f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING)	otek Anbotek Anbotek	P N ^o
Anbo	g) If mains supply passes through:	botek Anboten Ano	10H - 101
tek A	Means provided for passing protective conductor	hotek Anboten And	N
hotek	Impedance meets 6.5.2.4	All Hotek Anboten A	10- tek
Anbotek	h) Protective conductors bare or insulated, if insulated, green-and-yellow	An- Anbotek Anbotek	Anbo N Anbotek
Anbore	Exceptions:	otek Anboto And	Anbo
Anbo	1) earthing braids	obotek Anbote, Ano	N N
lek bi	2) internal protective conductors etc.	hotek Anboten Anto	N
a Ma	Green/yellow not used for other purposes	prin and tooler pi	N

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Clause	Requirement – Test	Result - Remark	Verdict
opotek	knoon Ano hotek Anboten Ano	ek hobokek hobor	pin
Anbotek	TERMINAL suitable for connection of a PROTECTIVE CONDUCTOR, and meets 6.5.2.3	otek Anbotek Anbotek	NANDO
6.5.2.3	Protective conductor terminal	inboten Anbo	lek - pro
ter Pr	a) Contact surfaces are metal	Anbotek Anbo	botek P
upoter.	b) Appliance inlet used	Anboten Anbo tek	Product
Anbotek Anbotek	c) For rewireable cords and permanently connected equipment, protective conductor terminal is close to mains supply terminals	hek Anbotek Anbotek	AmPrek
Anbor	d) If no mains supply is required, any protective conductor terminal:	abotek Anbotek Anbot	ek - Anl
potek	Is near terminals of circuit for which protective earthing is necessary	Anborek Anborek An	N N
Anbotek	External if other terminals external	Anbotek Anbo	Nex
Anbotek	e) Equivalent current-carrying capacity to mains supply terminals	ek Anbotek Anbotek	N Anbote
Aup	f) If plug-in, makes first and breaks last	poten Anburgek unbot	N Ant
otek I	g) If also used for other bonding purposes, protective conductor:	Anbotek Anbotek Ant	jotek - I
otek	Applied first	Antotek Anbotek	Nor Nor
Anthotek	Secured independently	Ann Lotek Anbotek	An ^b N
Ano	Unlikely to be removed by servicing	And Lotek anbotek	N
Augo	h) Protective conductor of measuring circuit:	poten Anno otek Anbote	^A NA ^{nb}
otek p	1) Current RATING equivalent to measuring circuit TERMINAL;	Anbolek Anbolek Anb	ote ^k N P
hotek	2) PROTECTIVE BONDING:	Ann wotek Anboter	Nx
wotek	Not interrupted; or	k hotek Anbotek	And N tek
Anbotek	i) Functional earth terminals allow independent connection	otek Anbotek Anbotek	^A N Anbo
h pubo	j) If a binding screw used for PROTECTIVE CONDUCTOR TERMINAL:	Anbotek Anbotek Anb	ne ^k P pr
ng the	Suitable size for bond wire	Anbor welk wootek A	hpore P
hborn	Not smaller than 4,0mm (No. 6)	Anboro Alto Attek	Anbole
Anbor	At least 3 turns of screw engaged	ek Aupon Antotek	Poter
Aupoton	Passes tightening torque test	optek Anboto And And	Pinbo
Anboi	k) Contactpressure not capable being reduced by deformation of materials	nbotek Anbotek Anbo	6 ³⁴ N ₁₆ 5
6.5.2.4	Impedance of protective bonding of plug- connected equipment	Anbois Autotek Ar	N

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Clause	Requirement – Test	Result - Remark	Verdict
Anboten	And tak suboliek Anbolt All	an Anbover Anor stell	nbotek
Anboten Anbc	Impedance between PROTECTIVE CONDUCTOR TERMINAL and each ACCESSIBLE part where PROTECTIVE BONDING is specified, is:	otek Anbotek Anbo Nbotek Anbotek Anbo	tek Anbo
- Mar	less than 0,1 Ohm; or	Anbors welt shotek	AT DOTON N
anbotek	less than 0,2 Ohm if equipment is provided with non detachable cord	Anbone Anbotek	Anborn
6.5.2.5	Bonding impedance of PERMANENTLY CONNECTED EQUIPMENT	brek Anbotek Anbo	ek Anbo
6.5.2.6	Transformer protective bonding screen	nbotek Anboi Al	ootak N Ar
ek pr	Transformer provided with screen for protective bonding:	Anbotek Anbotek	Anbotek 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	Anbor N Anbotek Anbotek
Anbos at an	screen bonding with soldered connection (see 6.5.2.2 b) is:	abotek Anborek An	ote ^k N An
otek	- Independently secured against loosening	And otek Anbotek	Anton
dek	- Not used for other purposes	Ante otek onbotek	Nuppor N
3.5.3	Supplementary insulation and reinforced insulation	ek Anbotek Anbotek	An ^b P
Anbote	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	potek Anbolen Anbo	otok P Ant
3.5.4	Protective impedance	Anbore Ans botek	inboter N
nbotek Lek	Limits current or voltage to level of 6.3.1 in NORMAL and to level of 6.3.2 in SINGLE FAULT CONDITION	Anbore Ane Anborek Anborek	Anbotek N
Anbote Anbote	CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of DOUBLE or REINFORCE DINSULATION of 6.7	otek Anbolek Anbotek	het Anb
tek p	The protective impedance consists of one or more of the following:	unbotek Anbotek A	nbe ^{tek} N p
botek	a) appropriate single component suitable for safety and reliability for protection, it is:	Anbotek Anboten Anbotek botek	Anboro
Anbore	1) RATED twice the maximum WORKING VOLTAGE	k Anbolek Anbolek	N
Anbo	2) resistor RATED for twice the power dissipation for maximum WORKING VOLTAGE	nbotek Anbotek Anbo	N
er pi	b) combination of components	Anboten Anbu hak	otoote ^k N
	Single electronic device not used asPROTECTIVE	Anboten Anbo	N

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com



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Clause	Requirement – Test	Result - Remark	Verdict
Anbo	and Antonex Antonex Anton	ak Anbott Att abotek	Anbotes
6.5.5	Automatic disconnection of the supply	otek Anbore An hotel	N
Anbo	a) RATED to disconnect the load within time specified in Figure 2	inbotek Anbote And	stek N
	b) RATED for the maximum load conditions of the equipment	Anbotek Anbotek A	tooter N
6.5.6	Current- or voltage-limiting device	An botek Anboten	Ant Net
Annotek	Device complies with all of:	Al hotek Anboten	N
Anbot	a) RATED to limit the current or voltage to the level of 6.3.2	hotek Anbotek Anbotek	N ^{abe}
lek ph	b) RATED for the maximum working voltage; and	abotek Anbore Ane	ove ^y N
botek	RATED for the maximum operational current if applicable	Anbotek Anbotek Ar	AnboteN
Anbon Anbotek Anbote	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of SUPPLEMENTARY INSULATION of 6.7	tek Anbotek Anbotek	An N
6.6	Connections to external circuits	botek Anboten Ano	Here P
6.6.1	Connections do not cause ACCESSIBLE parts of the following to become HAZARDOUS LIVE in NORMAL CONDITION or SINGLE FAULT CONDITION:	And Anbotek Anbotek An Anbotek Anbotek	Anbote ^P
Anbu	- the external circuits	en Anbo	P
Anbo	- the equipment	poten Anbu	Panb'
PUPP	Protection achieved by separation of circuits; or	anbotek Anbo vek of	ptek P p
otek p	short circuit of separation does not cause a HAZARD	Anbotek Anborek	unbote ^{ll} P
Ann	Instructions or markings for each terminal include:	And otek unbotek	An ^{bo} P
Annu	a) Rated conditions for terminal	Anti- otek Anbotek	P
Anbo	b) Required rating of external circuit insulation	poter Anburgetek anbote	Nato
6.6.2	Terminals for external circuits	unboten Anbu tek unb	otek - pi
nbotek A	TERMINALS which receive a charge from an internal capacitor are not HAZARDOUS LIVE after 10 s of interrupting supply connection	Anbotek Anbotek A	Anbotek N
6.6.3	Circuits with terminals which are hazardous live	No such hazardous live terminals	Antotek
- mabo	These circuits are:	rek obotek Anbote	PUL
ak po	Not connected to accessible conductive parts; or	inbo ek sotek Anbo	N
hotek pr	Connected to accessible conductive parts, but are not mains circuits and have one terminal contact at earth potential	Anbotek Anbotek A	obotek N

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Clause	Requirement – Test	Result - Remark	Verdict
Anbore	And antek Antonek Anton A.	Anbute Anu wotek	Anborek
Anboten	No accessible conductive parts are hazardous live	otek Anboten Anbo	N
6.6.4	Accessible terminals for stranded conductors	hotek Anboten Anbo	ex -
tek br	No RISK of accidental contact because:	in wotek Anbotek Anbi	N
otek	Located or shielded	Ant otek Anbotek A	N
Anbotek	Self-evident or marked whether or not connected to ACCESSIBLE conductive parts	Antorek Amborek	Anbo'N
Anbotek	ACCESSIBLE TERMINALS will not work loose	Hek Anbotek Anbo	N
6.7	Insulation requirements	untek Anboten Anbo	ak
6.7.1	The nature of insulation	notek unbotek Anbo	
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
6.7.1.2	Clearances	otek hnbotek Anbot	Р
ek Ant	Required CLEARANCES reflecting factors of 6.7.1.1	Anbotek Anbotek Anbo	otek P 1
Anbotek v	Equipment rated for operating altitude greater than 2000 m correction factor of Table 3 of 61010- 1 applied	Anbotek Anbotek	unbote P
6.7.1.3	Creepage distances	ek Anbolen Ann otek	Roote
Anboro	Required CLEARANCES reflecting factors of 6.7.1.1	potek Anboion Anon	P _{An} b
- at	CTI material group reflected by requirements	Anbour Ant Ant	Р
jon p	CTI test performed	Anbort All botek	nbote P
6.7.1.4	Solid insulation	Anbore An hotek	prib N
Anbote	Required CLEARANCES reflectingfactors of 6.7.1.1	tek Anboliek Anbolek	N
6.7.1.5	Requirements for insulation according to type of circuit	Anbotek Anbotek Anbo	tek pr
nbotek u	a) In 6.7.2 for mains circuits of overvoltage category II with a nominal supply voltage up to 300V	Anbotek Anbotek A	bote ^k N
Anbotek	b) In 6.7.3 for secondary circuits separated from the circuits in a) only by means of a transformer	ek pribolek Anbolek	P
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 ^m
rek pr	d) In K.2 for secondary circuits separated from the circuits in c) only by means of a transformer	Anborek Anbor An	botek P
10-	e) In K.3 for circuits that have one or more of:	Anto k sotek	Anbo'N

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Clause	Requirement – Test	Result - Remark	Verdict
Anboter	have stok anboret Anbor As	ek Anbole And atek	anbotek
	1) maximum TRANSIENT OVERVOLTAGE is limited to known level below the level of MAINS CIRCUIT	obtek Anbotek Anbotek Anbote	N Anbol
tek A	2) maximum TRANSIENT OVERVOLTAGE above the level of MAINS CIRCUIT	Anbotek Anbote And	tootek N
bon botek	3) WORKING VOLTAGE is the sum of more than one circuit or a mixed voltage	Anbonek Anbotek	Anboth
Anbotek	4) WORKING VOLTAGE includes recurring peak voltage, may include non-sinusoidal or non-periodic waveform	hotek Anbotek Anbotek	N Aribot
ek pr	5) WORKING VOLTAGE with a frequency above 30 kHz	Anbotek Anboten Anb	potek N
6.7.2	Insulation for mains circuits of overvoltage II with a nominal supply voltage up to 300V	Anbotek Anbotek	AnboteN
6.7.2.1	CLEARANCES and CREEPAGE DISTANCES	ak abotek Anbote	Pote
pin	Values for MAINS CIRCUITS of table 4 are met	or Annotek Anbotes	Р
an An	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	nbotek Anbotek Anbo	P An
6.7.2.2	Solid insulation	Anbotek Anboter Ar	N
6.7.2.2.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	Anbotek Anbotek	Anbolek
Anbote	Equipment passed voltage tests of 6.8.3 with values of Table 5	potek Anbotek Anbot	ek N Anb
Pro	Complies as applicable:	Anbores Anos otek An	opter N P
hotek I	a) ENCLOSUREor PROTECTIVE BARRIER Clause8	Anbotek Anbotek	Anbote ^K N
Anbotek	b) moulded and potted parts requirements of 6.7.2.2.2	ak Anbotek Anbotek	Anborek Anbotek
Anbois	c) inner layers of printed wiring boards requirements of 6.7.2.2.3	totek Anboit Anboit	N _{kn} bo
404	d) thin-film insulation requirements of 6.7.2.2.4	Anbo tek anbotek Ant	N
6.7.2.2.2	Moulded and potted parts	Anbu tek sobotek	N ^{boil}
Anbotek - otek	Conductors between same two layers are separated by at least 0,4 mm after moulding is completed	ek Anbolek Anbolek	Anbolik
5.7.2.2.3	Inner insulation layers of printed wiring boards	obter Ant Lotek Anbote	Nobo
ek Anb	Separated by at least 0,4 mm between same two layers	Inbotes Anbotek Anb	olek N M
botek	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	And Anbotek Anbotek	N

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e e e e e e e e e e e e e e e e e e e	EN 61010-1	And when hotek A	nboi
Clause	Requirement – Test	Result - Remark	Verdict
Anbo.	hotek Anbote Anu stek Anot	Anbo Antorek	Anbote
Anbote	a) thickness at least 0,4 mm	otek Anbote Ano	N
	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	unbotek Anbotek Anbo	ek N Ant
Anbotek 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 A	Anbotek Anbotek
6.7.2.2.4	Thin-film insulation	oter And stek Anbotek	N
hek Ant	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES	Anbotek Anbotek Anbo	ostek N Antos
nbotek nbotek	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	Anbois Anbotek	Anboten Notek
abotek	a) thickness at least 0,4 mm	ek obotek Anbote	P. N. otek
Anbote lek Anb	b) insulation is assembled of min two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	ibotek Anbotek Anbote otek Anbotek Anbote	N Anbo
potek Anbotek	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	Anbotek Anbotek An Anbotek Anbotek	Anbotek
6.7.3	Insulation for secondeary circuits derived from mains circuits of overvoltage II with a nominal supply voltage up to 300V	ortek Anborek Anborek Anborek	Anbot
6.7.3.1	Secondary circuits where separation from MAINS CIRCUITS is achieved by a transformer providing:	Artbotek Anbotek Ant	otek N An
ntek	- REINFORCED INSULATION	Ann otek anbotek	Ny
Anon	- DOUBLE INSULATION	Anno otek Anbotek	Pupper
Anbotek	- screen connected to the PROTECTIVE CONDUCTOR TERMINAL	otek Anbotek Anbotek	PN sobot
6.7.3.2	CLEARANCES	wotek Anbotek Anbo	P
otek Ar	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	k photek photek	Anbotek Anbotek
Anbor Anbor	b) pass the voltage tests of 6.8 with values of Table 6; with following adjustments:	otek Anbor Anborek	Pinbone ek sab
otek pri	1) values forREINFORCED INSULATION are 1,6 times the values for BASIC INSULATION	Anborek Anborek Anbo	tootek P

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Clause	Desuinement Test	Deputt Demorts	Vendiet
Clause	Requirement – Test	Result - Remark	Verdict
Anto Anbotek Anbo	2) if operating altitude is greater than 2000 m values of CLEARANCES multiplied with factor of Table 3	otek Anbotek Anbotek Anbotek	Р
nbotek Al	3) minimum CLEARANCE is 0,2 mm for POLLUTION DEGREE 2 and 0,8 mm for POLLUTION DEGREE 3	Anborek Anborek Ane	botek N
6.7.3.3	CREEPAGE DISTANCES	- nbotek Anbot	Pres
Anbotek	Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY INSULATION	otek Anbotek Anbotek	N Anborr
iek pr	Values for REINFORCED INSULATION are twice the values of BASIC INSULATION	Anbotek Anbotek Anb	potek P
botc	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	Anboitek Anboitek	Anboten Notek
6.7.3.4	Solid insulation	ek obotek Anbote	N
6.7.3.4.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	botek Anbotek Anbote	N Andr
potek	a) Equipment passed voltage test of 6.8.3.1 for 5 s with VALUES of Table 6 for BASIC and SUPPLEMENTARY INSULATION	Anbotek Anbotek An	nbotek N
Anbotek	values for REINFORCED INSULATION are 1,6 times the values of BASIC INSULATION	ek Anbotek Anbotek	Anbotek Anbotek
Anboi ak Anb	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	potek Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek	r N _{Anbo} o
Anborotek	value for REINFORCED INSULATION are twice the WORKING VOLTAGE	Anborek Anborek	Anbon
botel	Complies as applicable:	wolk whotek Anboren	N
h w	1) ENCLOSURE or protective barrier Clause 8	wek -totek Anbote	N
otek p	2) moulded and potted parts requirements of 6.7.3.4.2	Anbotek Anbotek Anb	ner N An
nbotek	3) inner layers of printed wiring boards requirements of 6.7.3.4.3	Anbotek Anbotek	Anbo N'
And	4) thin-film insulation requirements of 6.7.3.4.4	Anbo stek unbotek	N
6.7.3.4.2	Moulded and potted parts	oten Anbo	Nabo
nek N	Conductors between same two layers are separated by applicable distancesof Table 8	inbotek Anbotek Anbo	iek N Ant
6.7.3.4.3	Inner insulation layers of printed wiring boards	And welk abovek Al	N

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Clause	Requirement – Test	Result - Remark	Verdict
Anboten	hobe tek noore Annon Ann	ak Anbolen Anbo	nbotok
Anboteh	Separated by at least by applicable distances of Table 8 between same two layers	otek Anbotek Anbo	N Anbo
tek An	REINFORCED INSULATION have adequate electric strength; one of following methods used:	nbotek Anbotek Anbo	stek N A
Lotek	a) thickness at least applicable distance of Table 8	Ant hotek Anboten A	N
Anbotek	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION	Anbotek Anbotek	Anto N Anbotek
ek an	c) insulation is assembled of min two separate layers, where the combination is rated for 1,6 times the test voltage of Table 6	nbotek Anbotek Anbo	N DA
6.7.3.4.4	Thin-film insulation	Arriv wotek anbotek Ar	N
Anbotek	Conductors between same two layers are separated by applicable CLEARANCES andCREEPAGE DISTANCES	Anbotek Anbotek	N N
Anbot	REINFORCED INSULATION have adequate electric strength; one of following methods used:	potek Anbotek Anbote	N
sk Ant	a) thickness at least applicable distance of Table 8	hobotek Anbor Al	otek N
anbotek	b) insulation is assembled of min two separate layers, each RATEDfor test voltage of Table 6 for BASIC INSULATION	Anbotek Anbotek An	unboteN
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:	ek Anbotek Anbotek Dotek Anbotek Anbotek Lek obotek Anbote	N
. At	a.c. test of 6.8.3.1; or	Anboy welk abotek Ant	N
nbotek	d.c. test of 6.8.3.2 for circuits stressed only by d.c. voltages	Anbotek Anbotek	mbore N
5.8	Procedure for voltage tests	ek Anbotek Anbou	Par abote
6.9 Antonia	Constructional requirements for protection against electric shock	otek Anbotek Anbon	P
6.9.1	If a failure could cause a HAZARD:	unboten And stek unb	otek P
New P	a) Security of wiring connections	Anboten Anbo	nbote ^K P
nboten	b) Screws securing removable covers	Anboten Anbu	Product
Anbotek	c) Accidental loosening	Anbotek Anbo	Botel
Anbotek	d) CREEPAGE and CLEARANCES not reduced below the values of basic insulation by loosening	otek Anbolek Anbo	P
6.9.2	Material not to be used for safety relevant insulation:	nborek Anborek Anbo	le ^k N M
hotek	Easily damaged materials not used	his botek Anboter A	N
No.	Non-impregnated hydroscopic materials not used	All sek stoter	And N.A



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Clause	Requirement – Test	Result - Remark	Verdict
Anboten	habe have have have her	ek Anbolek Anbo	nbotek
6.9.3	Colour coding	otek anboteh Anbo	N
Anbot	Green-and-yellow insulation shall not be used except:	Inbotek Anbotek Anbo	hek Ar
ter An	a) protective earth conductors;	Anbote, Ann Lotek A	lootek N
boten	b) protective bonding conductors;	Anboter Ant otek	NobotN
Anboten	c) potential equilization conductors;	Anboten Anton otek	N
Anboten	d) functional earth conductors	otek Anbotek Anbo	N
6.10	Connection to mains supply source and connections between parts of equipment	hbotek Anbotek Anbo	tok Ant
6.10.1	Mains supply cords	Anbore And Lotek Ar	poten
poto.	Rated for maximum equipment current	Anbote Anno Anno	anbot ^e P
Anboton	Cable complies with IEC 60227 or IEC 60245	Anbotes Anbo	Per
Anboten	Heat-resistant if likely to contact hot parts	orak Anbotes Anbo	Noote
Anbote	Temperature rating (cord and inlet)	hotek Anboten Anbo	N
sk Anb	Green-and-yellow used only for connection to protective conductor terminals	Anbotek Anbotek An	otek P
potek p	Detachable cords with IEC 60320 mains connectors:	Anborek Anborek	Anboten hotek
nbotek	Conform to IEC 60799; or	ek nbotek Anbote	A.n. N
A. abotel	Have the current rating of the mains connector	rek abotek Anbote	N
6.10.2	Fitting of non-detachable mains supply cords	hot his shotek Anbot	Anu
5.10.2.1	Cord entry	Anbo, ak abotek Ant	pter P
A No.	Inlet or bushing smoothly rounded; or	Anbo, Pr. Pr.	anbote N
nbon	Insulated cord guard protruding >5D	Anbor All botek	prio N
6.10.2.2	Cord anchorage:	ek Anbois An hotek	Arteoter
Anbois	Protective earth conductor is the last to take the strain	botek Anbole All	N _{prob} o
stek pr	a) Cord is not clamped by direct pressure from a screw	Anbotek Anbotek Anb	botek
hotek	b) Knots are not used	Anbotek Anbo	N
Anbotek	c) Cannot push the cord into the equipment to cause a hazard	ek Anbotek Anbotek	Anbotek
Anbo	d) No failure of cord insulation in anchorage with metal parts	wotek Anbotek Anbotek	Nobo
iek an	e) Not to be loosened without a tool	hotek anbotek Anb	N
botek	f) Cord replacement does not cause a HAZARD and method of strain relief is clear	Antotek Anbotek A	N

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Clause	Requirement – Test	Result - Remark	Verdict
Anbore	And antek Anborek Anbor A.	k Anbole Anu untek	anbotel
Anboten	Push-pull and or torque test	otek Anboten Anb	N
6.10.3	Plugs and connectors	botek Anboten Anbo	ek -
tek Al	Mains supply plugs, connectors etc., conform with relevant specifications	Anbotek Anbotek Anbo	botek N
boten botek	If equipment supplied at voltages below 6.3.2.a) or from a sole source:	Anbotek Anbotek	AnbotN
Anbotek	Plugs of supply cords do not fit mains sockets above rated supply voltage	hek Anbotek Anboten	Anbo
p.nbo	MAINS-type plugs used only for connection to MAINS supply	nbotek Anbotek Anbot	δ ^γ Ν _β ς
potek pr	Plug pins which receive a charge from an internal capacitor	Anbotek Anbotek An	note ^k
anbotek	Accessory MAINS socket outlets:	Anbotek Anbote	Net
Anbotek	a) Marking if accepts a standardMAINSplug (see 5.1.3e)	rak Anbotek Anbotek	Nanbot
antion art	b) Input has a protective earth conductor if outlet has EARTH TERMINAL CONTACT	botek Anbotek Anbote	N AN
6.11	Disconnection from supply source	Ann botek Anbotek Ani	
6.11.1	Disconnects all current carrying conductors	All Lotek Anboten	Aupo
6.11.2	Exceptions	k Lotek Anbotek	Pupp-
6.11.3	Requirements according to type of equipment	Ant Lotek Anbotek	Pupo.
6.11.3.1	Permanently connected equipment and multi- phase equipment	potek Anbotek Anbotek	N Ant
otek I	Employs switch or circuit-breaker	Pre Anbotek Anbote Ant	N
nbotek	If switch or circuit-breaker is not part of the equipment, documentation requires:	Anbotek Anboten P	Anbotek
Anboto	a) Switch or circuit-breaker must be included in the installation	tek Anbolek Anbolek	ATN of C
	b) Suitable location easily reached	tek abotek Anbote	N
-alt	c) Marking as disconnecting for the equipment	unbow All abotek Anbo	N
6.11.3.2	Single-phase cord-connected equipment	Anboro Antotek A	boten
nbo.	Equipment is provided with:	Anbors Ans botek	Anboten
Anboi	a) Switch or circuit-breaker; or	e poloti postek	P.N.
Auporo	b) Appliance coupler (disconnectable without tool);	otek Anboli Ant Lotek	Nab
Anbo	c) Separable plug (without locking device)	nbotek Anbolis And	
6.11.4	Disconnecting devices	obotek Anbote Ano	uotek
-otek	Electrically close to the SUPPLY	notek unboren Al	N

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oter P	EN 61010-1	Anboten Anbo hotek A	nbotek P
Clause	Requirement – Test	Result - Remark	Verdict
Anbore	Ante anbolet Ante ak wot	ek Anbors Ans	anbores
6.11.4.1	Switches and circuit-breakers	otek Anboten Anbo	Nubotek
anbo	When used as disconnection device:	uotek anbotek Anbo	N
ret N	Meets IEC 60947-1 and IEC 60947-3	anbotek anbotek Anbo	N
dek	Marked to indicate function	Anto otek Antotek A	N
Helt	Not incorporated in MAINS cord	Anb ^b stek unbotek	Anbo'N
Anbotek	Does not interrupt PROTECTIVE EARTH CONDUCTOR	otek Anbotek Anbotek	AnN
6.11.4.2	Appliance couplers and plugs	hotek Anboten Anbo	- 400°
ok pro	Where an appliance coupler or separable plug is used as the disconnecting device (see 6.11.3.2):	Anbotek Anbotek Anbo	potek pr
obotek	Readily identifiable and easily reached by the operator	Anbotek Anbotek	Anbotek
Anbotek	Single-phase portable equipment cord length not more than 3 m	orek Anbotek Anbotek	Anth Anbotek
Anbor	Protective earth conductor connected first and disconnected last	portek Anboi An	K N ANDO

7	Protection against mechanical hazards		unbu k
7.1	Equipment does not cause a mechanical HAZARD in NORMAL nor in SINGLE FAULT CONDITION	ek Anbotek Anbotek	Anbotel
Ann	Conformity is checked by 7.2 to 7.7	poto Ann wotek Anbote	PAnb
7.2	Sharp edges	Anboter And And	ot ^{ek} P P
poter P	Easily-touched parts are smooth and rounded	Anbotet Anb	nbotekP
Anboten	Do not cause an injury in normal use and	Anboten Anbo	Antho Pik
Anboten	Do not cause an injury in single fault condition	ak Anboten Anbo	Botek
7.3 model	Moving parts	otek Anbotek Anbou	
7.3.1 M	HAZARDS from moving parts limited to a tolerable level with the conditions specified in 7.3.2 and 7.3.5	Anbotek Anbotek Anbo	rok N pr
nbotek	RISK assessment in accordance with 7.3.3 carried out	Anbotek Anbotek A	N.
7.3.2	Exceptions:	k Anbor with abotak	Antone
Anbo	Access to HAZARDOUS moving parts permitted under following circumstances:	otek Anborek Anborek	N _{ab} o
her bu	a) obviously intended to operate on parts or materials outside of the equipment	Anbotek Anbotek Anbo	N P
hoten	inadvertent touching of moving parts minimized by equipment design (e .g. guards or handles) botek Compliance Laboratory Limited	Anbotek Anbotek	AnbotN

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Clause	Requirement – Test	Result - Remark	Verdict
Anbore	And antok Antores Anton as soft	ak Anbors Ant watek	anbotek
	 b) If operator access is unavoidable outside normal use following precautions have been taken: 	ofek Anboren Anbor Aborek Anborek Anborek	N Anbo
rek Ar	1) Access requires TOOL	sbotek Anbote And	N Vertex
hotek	2) Statement about training in the instructions	Annotek Anboten A	N
Anbotek	3) Warning markings on covers prohibiting access by untrained operators	Anboitek Anboiter	Ante N Anbotek
Puppor	or symbol 14 with full details in documentation	otek Anborn And hotek	N tool
7.3.3	Risk assessment for mechanical HAZARDS to body parts	nbotek Anbois And	e ^{je} N _{pro} t
potek	RISK is reduced to a tolerable level by protective measures as specified in Table 12	Anborek Anborek Ar	pote N
Anbotek	Minimum protective measures:	anbotek Anbo	N
Anbotek	A. Low level measures	rek anbotek Anbo	N
nbote	B. Moderate measures	otek Nabotek Anbot	N
the soft	C. Stringent measures	ntek sobotek Anbo	N
7.3.4	Limitation of force and pressure	And stek subotek An	N
Anbotek	Following levels are met in normal and single fault condition:	Anbotek Anbotek	unbor N
Anbotek	Continuous contact pressure below 50 N / cm^2 with force below 150 N	ek Anbotek Anbo	Anbotel
K Anb	Temporary force below 250 N for an area at least of 3 cm ² for a maximum duration of 0,75 s	obotek Anbotek Anbotek	NAn ^b
7.3.5	Gap limitations between moving parts	An Anbotek Anbote An	N
7.3.5.1	Access normally allowed	au botek Anboter	N
Anbotek	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 otek Anbotek Anbotek	Antonet
7.3.5.2	Access normally prevented	unboten Anbo	Ke ^k N p
hotek A	Maximum gap as specified in Table 14 assured in NORMAL and in SINGLE FAULT CONDITION	Anbotek Anbotek A	nbo ^{tek} N
7.4	Stability	An wotek anbotek	Anbo
Anbotek	Equipment not secured to the building structure is physical stable	otek Anbotek Anbotek	A P Anbo
Anbo	Stability maintained after opening of drawers, etc. by automatic means, or	inbotek Anbotek Anbo	er N
raft pr	Warning marking requires the application of means	Anbor An Antotok A	ooter N

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Clause	Deguirement Test	Desuit Demerik	Mandiat
Clause	Requirement – Test	Result - Remark	Verdict
Ann		Anu stak subotak	Aupor
Anbor	Compliance checked by following tests as applicable:	otek Anbor Ar	Anbot
Por	a) 10° tilt test for other than handheld equipment	inbore Ann Lotek Anbo	N AN
hotek Ar	b) multi-directional force test for equipment exceeds height of 1 m and mass of 25 kg	Anbotek Anbotek Ar	botek N
Anbotek	c) downward force test for floor-standing equipment	Anbotek Anbotek	Anb N Anbotek
Anboro	d) overload test with 4 times maximum load for castor or support that supports greatest load	otek Anbole All	Noot
ek pr	e) castor or support that supports greatest load removed from equipment	Anbotek Anbotek Anbo	N Am
7.5	Provisions for lifting and carrying	Anbotek Anbo wak	N
7.5.1	Equipment more than 18 kg:	Anbotek Anbote	Nex
abotek	Has means for lifting or carrying; or	ek obotek Anbore	N
Al. abot	Directions in documentation	tek stotek Anbote	N
7.5.2	Handles or grips	por pri pri	Р
, alt	Handles or grips withstand four times weight	Andon All Antotek Ant	Р
7.5.3	Lifting devices and supporting parts	Anbort All Abovek	unboren N
Anboic	Rated for maximum load; or	Anbor Antotek	An ^b N
Anboit	tested with four times maximum static load	ek Anbor An	Noore
7.6	Wall mounting	potek Anbois Ano	e
r Ant	Mounting brackets withstand four times weight	abotek Anbors An	otek N p
7.7	Expelled parts	abotek Anbote And	hotek_
abotek	Equipment contains or limits the energy	abotek Anboin P	N
-botek	Protection not removable without the aid of a tool	k sbotek Anbote	Notek
botel	Anbolen Anon otek Anbolek Anbei	ok botek Anboten	Pupe
3	Resistance to mechanical stresses	bort Ant hotek Anboro	Pupo
3.1	Equipment does not cause a hazard when subjected to mechanical stresses in normal use	Anbotek Anbotek Anbr	hotek P
potek	Normal protection level is 5J	Considered 5J	P
Anbotek	Levels below 5 J but not less than 1 J are acceptable if all the following criteria are met	Anbotek Anbotek	And
Aupor	a) lower level be justified by manufacturer	ptel Anbor Ar botek	Nabo
Anto	b) cannot easily be touched by unauthorzed persons or the general public	inbotek Anbor Ann	e ^{sk} N _P r
ba ba	c) only occasional access during NORMAL USE	Anbon Ann Jok	boyer N

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Clause	Requirement – Test	Result - Remark	Verdict
Anbotek	And A notek Anbote And	at Anbutet Anbu	hotek
Anbotek	d) IK code in accordance to IEC 62262 marked or symbol 14 used with full information in the	otek Anbotek Anbotek	N
Popo	documentation For non-metallic ENCLOSURES rated below	abolet habe h	N P
	2 °C ambient temperature value chosen for minimum rated temperature	Anbotek Anbotek An	botek
wotek	Impact energies between IK values, the IK code marked for nearest lower value	Anborek Anborek	AnbotN
Anu	Conformity is checked by performing following tests:	nek onbotek Anbotek	Anbo
	1) the static test of 8.2.1	ok botek Anbore	Р
ak An	2) impact test of 8.2.2 with 5J except for hand- held equipment	hotek Anbotek Anbot	P P P
otek	If impact energy not selected to 5J alternate method of IEC 62262 used	Anbotek Anboten An	N N
Anbotek	3) drop test of 8.3.1 or 8.3.2 except for fixed and equipment with mass over 100kg	Anbotek Anbo	Anbotek
Anboro	Equipment rated with an impact rating of lk 08 by that clearly meets the criteria	rek Anboic Antoniek	Anbot
AUD	After the tests inspection with following results:	poter Anto sek abott	er pr
e pot	- Hazardous live parts above the limits of 6.3.2 not accessible	Anbotek Anbor An	lote ^k N
	- insulation pass the voltage tests of 6.8	Anboro Ann stek	unbote N
nboter	i) no leaks of corrosive and harmful substances	Anbotes Anbo	Anb Pek
anboten	ii) Enclosure shows no cracks resulting in hazard	ek Anbote, Ann tek	Pot
Anbote	iii) CLEARANCES not less than their permitted values	potek Anborek Anbor	P
Ant	iv) the insulation of internal wiring remains undamaged;	Aupotek Aupotek Aup	_{ptek} P
ntek I	V) Protective barriers necessary for safety have not been damaged or loosened	Anbota Anu Anu Anbotak	nbotelN
nbubotek	vi) No moving parts exposed, except permitted by 7.3	Anboverek Ambotek	AntoN
Autotel	vii) no damage which could cause spread of fire	alk shotek Anboten	P
.2	Enclosure rigidity tests	on All Anbotek Anbote	P
.2.1	Static test	Anbo, An botek Anbo	P
P	- 30N with 12mm rod to each part of enclosure	Anbolt All hotek A	nb ^{oten} P
pote botek	- in case of doubt test conducted at maximum rated ambient temperature	Anbotek Anbotek	AnbolN
3.2.2 Antipotet	Impact test	Applied to enclosure with acceptable results	P
Anbo	Impact applied to any part of enclosure causing a hazard if damaged	nbotek Anboi Anbo	P P
			105

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Clause	Requirement – Test	Result - Remark	Verdict
Anboter	And tak anborek Anbor ak not	ek Anboiler Anb	anbotek
	Non-metallic enclosure cooled to minimum rated ambient temperature if below 2 $^\circ\!\!\!\!\!^\circ\!\!\!\!^\circ\!\!\!\!^\circ$	otek Anbolek Anbolek	PAnbot
8.3	Drop test	inboto Ant wotek Anbo	N Ant
8.3.1	Equipment other than HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	Anboro Ano	boten N
hotek	Test conducted with a drop height or angle of	Ann hotek Anboten	And Net
8.3.2	HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	hek Anbotek Anbotek	AnP pote
Anbot	Non-metallic ENCLOSURES cooled to minimum RATED ambient temperature if below 2 °C	nbotek Anbotek Anbot	P Ant
len bu	Drop test conducted with an height of 1 m	Anboter Anb	o ^{tek} P

9 poter	Protection against the spread of fire		onbotek
9.1	No spread of fire in normal and single fault condition	tek Anborek Anborek	PAnbote
ek Ant	Mains supplied equipment meets requirement of 9.6 additionally	bore Ante Anborek Anborek	N And
ootek	Conformity for each source of HAZARD or area of the equipment is checked by one of the following:	Anbotek Anbote An	unbotei ^P
Anboi	a) Fault test of 4.4; or	Anborn At hotek	AnbP
Anbois	b) Application of 9.2 (eliminating or reducing the sources of ignition); or	ek Anbohek Anbohek	Noter
ak Ant	c) Application of 9.3 (containment of fire within the equipment)	Anbotek Anbotek Anbot	P ^{AN}
9.2	Eliminating or reducing the sources of ignition within the equipment	Anbolek Anbolek	nbotek_
Annontek	a) 1) Limited-energy circuit (see 9.4); or	Ame otek Anbotek	Anb N
Anbotel	2) Insulation meets the requirements for BASIC INSULATION; OR	otek Anbotek Anbotek	P.N Mabot
K AND	Bridging the insulation does not cause ignition	hotek Anboten And	N N
otek p	b) Any ignition HAZARD related to flammable liquids (see 9.5)	No liquids used	ibotek N
nboie	c) No ignition in circuits designed to produce heat	Anbolis Ann hotek	Anboth
9.3	Containment of the fire within the equipment, should it occur	k pribolek Anbolek	Antrotek
Anbo	a) Energizing of the equipment is controlled by an operator held switch	nbotek Anbotek Anbote	N Ant
stek Al	b) ENCLOSURE is conform with constructional requirements of 9.3.1; and	Anbotek Anbotek A	poset P
np.	Requirements of 9.5 are met	And i otek	Anboin



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Clause	Requirement – Test	Result - Remark	Verdict
Anbore	knin hotek anboter Anbo	at Anbors Ann movels	Anboret
9.3.1	Constructional requirements	otek Anbote Ano	anbote
	a) Connectors and insulating material have flammability classification V-2 or better	Fire enclosure is made of metal and plastic flame rated V-0	rek P Anb
hbotek ok	b) Insulated wires and cables are flame retardant (VW-1 or equivalent)	Anbotek Anbotek Ar	Anbote
Anboit	c) ENCLOSURE meets following requirements:	Anborn Athen botek	AnPro
Anbor	1) Bottom and sides in arc of 5 ° (see Figure 13) to non-limited circuits (9.4) meets:	otek Anbolek Anbolek	N looter
ek er	i) no openings; or	nbo tek aborek Anbol	P
10K	ii) perforated as specified in Table 16; or	Anbo vek unbotek An	N
100. 100.	iii) metal screen with a mesh; or	Anbo tek subotek	Anboron N
Anbor	iv) baffles as specified in Figure 12	Anbor Lak abotek	protN
Anbound	2) Material of ENCLOSURE and any baffle or flame barrier is made of:	Fire enclosure is made of plastic flame rated V-0	Poote
ek pa	Metal (except magnesium); or	to tek unbotek Anbo.	N
potek	Non-metallic materials have flammability classification V-1 or better	Anbotek Anbotek Ant	P P
Anbotek	3) ENCLOSURE and any baffle or flame barrier have adequate rigidity	Anbotek Anbo	AnbPak
9.4	Limited-energy circuit	Ant hotek Anbotek	Anbo
Ant Ant	a) Potential not more than 30 r.m.s. and 42.4 V peak, or 60 V dc	obotek Anbotek Anbotek	NANDO Nando
otek	b) Current limited by one of following means:	Ar anbotek Anbote An	-otok-
-botek	1) Inherently or by impedance;	potek Anboten p	NX
hotek	2) Over current protective device;	K botek Anboten	Ant N stek
Anbote	3) A regulating network limits also in SINGLE FAULT CONDITION	otek Anbotek Anboten	AN
r Anb	c) Is separated by at least BASIC INSULATION	obotek Anbore An	tek N prib
otek p	Fuse or a nonadjustable electromechanical device is used	Anbotek Anbote Ann	ibotek-
9.5	Requirements for equipment containing or using flammable liquids	No flammable liquids used	Anbotek
Anbotek	Flammable liquids contained in or specified for use with equipment do not cause spread of fire	otek Anbotek Anbo	N Anbote
Ano	Risk is reduced to a tolerable level :	nboter Anor otek nabo	iek Anbr
hotek A	a) The temperature of surface or parts in contact with flammable liquids is 25 °C below fire point	Anborek Anborek An	bote ^k N A
Nex	b) The quantity of liquid is limited	No such liquid used	Anbo N .k



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Clause	Requirement – Test	Result - Remark	Verdict
Anboten	hab stek anbotek Anbot All	ek Anboter Anbo	anbotek
Anbotel	c) Flames are contained within the equipment	otek Anboten Anbo	N
k anbr	Detailed instructions for risk-reduction provided	Lotek Anbotek Anbo	N
9.6	Overcurrent protection	knu otek sphotek Anbo	N
9.6.1	Mains supplied equipment protected	And stek anbotek Ar	N
Anbotek	Basic insulation between mains parts of opposite polarity provided	Anbotek Anbotek	Anbo'N
Anboten	Devices not in the protective conductor	stek Anboten Anbo	Nibore
Anbo	Fuses or single pole circuit-breakers not fitted in neutral (multi-phase)	hbotek Aribotek Anbo	ek N Anb
9.6.2	Permanently connected equipment	Ambore Amb Lotek An	po ^{ten} N I
boton	Overcurrent device:	Anboten Anbo	N ^{toote} N
Anboto	Fitted within the equipment; or	Anbotes Anbo	Nek
Anbotek	Specified in manufacturer's instructions	orek Anbotek Anbo	Noote
9.6.3	Other equipment	notek Anbotek Anbo	N
ek vi	Protection within the equipment	ak abotek Antion	N

10	Equipment temperature limits and resistance to	o heat	Anto Jok
10.1	Surface temperature limits for protection against burns	Hek Anbotek Anbotek	Anbotel
Anbote	Easily touched surfaces within the limits in NORMAL and in SINGLE FAULT CONDITION:	(see appended table)	e P _{anb} r
Pri-	- at an specified ambient temperature of 40 °C	Anborn ok stotek Anb	N
anbotek	- for equipment rated above 40 °C ambient temperature limits not exceeded raised by the difference to 40 °C	Anborek Anborek	nbote P Anbotek
Anbote	Heated surfaces necessary for functional reasons exceeding specified values:	ter Antorek Anbotek	And Don
K phb	Are recognizable as such by appearance or function; or	Anbotek Anbotek Anbo	N PS
oto. p	Are marked with symbol 13	Anbolic And Motek A	Noote ^M N
nboten	Guards are not removable without TOOL	Anboter And Antek	Nodi
10.2	Temperatures of windings	et Anbotes And atek	Anuotek
Anboter	Limits not exceeded in:	otek Anboten Anb	nbot
Anbo	NORMAL CONDITION	hotek Anboten Anbu	P
rek pi	SINGLE FAULT CONDITION	hotek Anbotek Anbo	P
10.3	Other temperature measurements	(see appended table)	Р
enzhen A	Following measurements conducted if applicable: nbotek Compliance Laboratory Limited	Anbotek Anbotek	Anbo



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Clause	Requirement – Test	Result - Remark	Verdict
Anboter	Anti antionest Antion At not	ak Anbole, And Ack	anbotek
Anbotek	a) Value of 60 °C of field-wiring terminal box not exceeded	otek Anbotek Anbo	K Anbot
Anbo	 b) Surface of flammable liquids and parts in contact with this liquids 	mbotek Anbore An	otek N pri
	c) Surface of non-metallic enclosures	Anboten Anu stek	poter P
boten	d) Parts made of insulating material supporting parts connected to mains supply	Anbotek Anbo	AnbotN
10.4	Conduct of temperature test	Anbor Ar hotek	Pier
10.4.1	Tests conducted under reference test conditions and manufacturer's instructions	otek Anboild Anbotek	Pubot
10.4.2	Temperature measurement of heating equipment	nboter Anno otek Anbo	nok N Ant
er pro	Tests conducted in test corner	Anboten Anbo	pote ^M N
10.4.3	Equipment intended for installation in a cabinet or wall	Anbotek Anbotek	AnboteN
Anbo, Lotek	Equipment built in as specified in installation instructions	Anboi Anbotek	AntN
10.5	Resistance to heat	te Ant otek Anbotek	Poo
10.5.1	Integrity of CLEARANCE and CREEPAGE DISTANCES	botek Anbotek Anbo	Part
10.5.2	Non-metallic ENCLOSURES	An botek Anbotet An	Р
otek	Within 10 min after treatment:	protek anbotek	Pok
10.5.3	Insulating material	And stek unbotek	P
Anbote	a) Parts supporting parts connected to MAINS supply	notek Anbolek Anbolek	Р
K prob	b) TERMINALS carrying a current more than 0.5 A	hotek Anboreh Anbo	Jek P
otek p	Examination of material data; or	hotek anbotek An	Р
wotek	in case of doubt::	hotek Anbotek	bupo.
no watek	1) Ball pressure test; or	k hotek Anbotek	Anton P rek
Anu	2) Vicat softening testof ISO 306	And tek obotek	P

11	Protection against hazards from fluids		nen Aup
11.1	Protection to OPERATORS and surrounding area provided by EQUIPMENT	Anbolek Anbolek A	Note ^k N F
abotek	All fluids specified by manufacturer considered	k sobotek Anbote	P.M. N. tek
11.2	Cleaning	rek abotek Anbote	N
11.3	Spillage	p. Al abotek Anbote	N
11.4	Overflow	Inbon At Anbo	N And
11.5	Battery electrolyte	Anborn phi botek Ar	poter P
nborn	Battery electrolyte leakage presents no hazard	Anboin Ann otek	unboten N

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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



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Clause	Requirement – Test	Result - Remark	Verdict
Anbore	And atek anborek Anbor A	ek Anbule Anu ustek	anbotok
11.6	Specially protected equipment	otek Anboten Anbo	N
11.7	Fluid pressure and leakage	Lotek anbotek Anbu	alt the
11.7.1	Maximum pressure	Anti- stek unbotek Anbo	- he
botek	Maximum pressure of any part does not exceed <i>P</i> _{RATED}	Antotek Antotek As	hoose N
11.7.2	Leakage and rupture at high pressure	Anboten Anto-	N
Anbotek	Fluid containing parts subjected to hydraulic test if:	otek Anbotek Anbotek	N phote
ek pr	a) product of pressure and volume > 200 kPal; and	Anbotek Anbotek Anbot	N Anto
ootek	b) pressure > 50 kPa	h anbotek Anbote An	N
Anbotek	Parts of refrigerating systems meets pressure- related requirements of IEC 60335-24 or IEC 60335-24	Anbotek Anbotek	Anborel
11.7.3	Leakage from low-pressure parts	stek unbotek Anbo	N
11.7.4	Overpressure safety device	tek pobotek Anbor	- Pin
Jek.	Does not operate in NORMAL USE	Anbu tek nobotek Ant	N
Anbotek	a) Connected as close as possible to parts intended to be protected	Anborek Anborek	unbol N
Anbotek	b) Easy access for inspection, maintenance and repair	lek Anborek Anbo	Anbotek
PUP	c) Adjustment only with TOOL	hooter Ante otek Antoote	NANDO
Ani	d) No discharge towards person	Anbotes Anbo stek anb	otek N PS
otel	e) No HAZARD from deposit of discharged material	Anbotek Anbo	nbotek
nboten	f) Adequate discharge capacity	anbotet Antion	N
Anbotek	No shut-off valve between overpressure safety device and protected parts	ek Anbotek Anbotek	Notek

12	Protection against radiation, including laser sou ultrasonic pressure	urces, and against sonic and	itek prib
12.1	Equipment provides protection	Ann Hotek Anboten A	N
12.2	Equipment producing ionizing radiation	Anti- wotek Anbotek	And N vek
12.2.1	Ionizing radiation	And Lotek Anbotek	P N
12.2.1.1	Equipment meets the following requirements:	oren Anno otek Anbotek	Napo
otek Ar	a) if intended to emit radiation meets requirements of 12.2.1.2; or	nbotek Anbotek Anbo	N AND
nbotek	tested, classified and marked in accordance to IEC 60405	Anbotek Anbotek A	N

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Clause	Requirement – Test	Result - Remark	Verdict
anbotek	Anbor Ar aborek Anbore Anu	at pripotek pripo	A. botok
Anbotek	b) if only emits stray radiation meets requirements of 12.2.1.3	otek Anbotek Anbotek	N Anbot
12.2.1.2	Equipment intended to emit radiation	mboles Anbo stek anbo	N N N
Her An	Effective dose rate of radiation measured	Anbores Anbo	bote ^k N
boten	If dose rate exceeds 5 µSv/h marked with the following:	Anbotek Anbotek	Anbo'N
Annu wotek	a) Symbol 17 (ISO 361)	k wotek anbotek	N
PUD	b) Abbreviations of the radionuclides	plet And Lotek Anbotek	N
burn	c) With maximum dose at 1 m;or	nbores Anti-	N Ant
potek pri	with dose rate value between 1 µSv/h and 5 µSv/h in m	Anbotek Anbotek Ar	pote ^k N
12.2.1.3	Equipment not intended to emit radiation	abotek Anboten	Any Nek
Anbotek	Limit for unintended stray radiation of 1 µSv/h at any easily reached point kept	rak Anbotek Anbotek	Anbote
12.2.2	Accelerated electrons	botek Anbot Att	K N Ant
ek pup	Compartments opened only by the use of aTOOL	Anbotek Anbors An	otek N
12.3	Ultra-violet (UV) radiation	Conformity test under consideration	unbote ^{le} v
Anbon	No unintentional and HAZARDOUS escape of UV radiation:	ek Anborek Anborek	AnbN
Antotel	- checked by inspection; and	stek snbotek Anbor	N
it who	- evaluation of RISK assessment documentation	otek unbotek Anbor	N
12.4	Microwave radiation	Anti-	pt P
-tek	Power density does not exceed 10 W/m ² :	Anbotek subotek	nbor Ny
12.5	Sonic and ultrasonic pressure	Anburget anboliek	Anbois
12.5.1	Sound level	in Anboursek unbotek	P.N.
Aupo	No HAZARDOUS sound emission	otek Anbo tek abote	N _{inbo}
otek Ar	Maximum sound pressure level measured and calculated for maximum sound power level as specified in ISO 3746 or ISO 9614-1	Anbotek Anbotek Anb	ne ^k N Ar
nbotek	Instruction describes measures for protection	Anbotek Anbo	N N
12.5.2	Ultrasonic pressure	4 Antootet Antoo	N
Anbotek	Equipment not intended to emit ultrasound does not exceed limit of 110 dB between 20 kHz and 100 kHz	otek Anbotek Anbotek Anbotek	N Anbol
tek pri	Equipment intended to emit ultrasound:	sabotek Anbota An	N votek
ipotek .	Outside useful beam does not exceed limit of 110 dB between 20 kHz and 100 kHz	Anbotek Anbote A	Anboth

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Anbotek Product Safety

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Clause	Requirement – Test	Result - Remark	Verdict
Anbo	And atek anboten And ak wot	ek Anbour Antoniek	anboten
	If inside useful beam above values exceeded:	otek Anboten Anbo	N
- day	Marked with Symbol 14 of Table 1	Lotek Anbotek Anbo	N
rel ^k	and following information in the documentation:	hou stek hobotek Anbo	N
Hek.	a) dimensions of useful beam	And stek anbotek Ar	N
lon rek	b) area where ultrasonic pressure exceed 110 dB	Anbo tek anbotek	AnboiN
Anbou	c) maximum sound pressure inside beam area	Anbo lek sobotek	N
12.6	Laser sources	otek Anbor ek botek	Nobos
probo	Equipment meets requirements of IEC 60825-1	botek Anboin An	× N d

13	Protection against liberated gases, explosion a	nd implosion	obotek
13.1	Poisonous and injurious gases and substances	No injurious gases	Nek
Anbotek	No poisonous or injurious gases or substances liberated in NORMAL CONDITION	tek Anbotek Anbotek	N N Anbote
Anon	Attached data/test reports demonstrate conformity	boter And stek unbot	N Anto
13.2	Explosion and implosion	Anboten Anb otek Ant	potek I
13.2.1	Components	Anboton Anbo	unbotek.
Anboten	Components liable to explode:	Anboten Anbo	Anbetek
Anboten	Pressure release device provided; or	lek Anboten Anbo	Note
Anbot	Apparatus incorporates OPERATOR protection (see also 7.7)	potek Anbotek Anbo	K N Anbe
Pu	Pressure release device:	Anbote Anti-	ptek P
oter	Discharge without danger	Anbote, And And	nbotek
nboten	Cannot be obstructed	Anboten Anti-	N
13.2.2	Batteries and battery charging	ak Anboten Andrek	npotek
Anbote	If explosion or fire hazard could occur:	otek Anboten Anbo	- nbo
k Anto	Protection incorporated in the equipment; or	hotek Anboten Anbo	N
stek I	Instructions specify batteries with built-in protection	Anbotek Anbotek Anb	ibotek N
nboto	In case of wrong type of battery used:	Anbole Ant Lotek	anbotek
Anboton	No HAZARD; or	a Autorea Autor	Notek
Anboto	Warning by marking and within instructions	otek Anboter And	Nnbo
Anbr	Equipment with means to charge rechargeable batteries:	inbotek Anbotek Anbo	leik - pri
botek	Warning against the charging of non-rechargeable batteries; and	Anboi Anbotek A	lo ^{oten} N

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	EN 61010-1	Anboten Anbo	nbotek
Clause	Requirement – Test	Result - Remark	Verdict
Anbo	And stek antioner And ak both	ak Anbon All atek	anbore
	Type of rechargeable battery indicated; or	otek Anboten Anbo	N
Anbo	Symbol 14 used	Lotek anbotek Anbo	N
tek M	Battery compartment design	how otek unbotek Anbo	N
otek	Single component failure	And otek Anbotek A	N
ib. stek	Polarity reversal test	And otek nabotek	Anbon N
13.2.3	Implosion of cathode ray tubes	No such device used	Aupon
Anbo	If maximum face dimensions > 160 mm:	oter And tek mbotek	Hupor.
PUPPO	Intrinsically protected and correctly mounted; or	hbotek Anbu tek nbo	et N Anto
ok pri	ENCLOSURE provides protection:	Anboten Anbo tek	po ^{tek} N p
potek	If non-intrinsically protected:	Anbotek Anbot Lek	obotek
Anbotek	Screen not removable without TOOL	Anbotek Anbou	Net
abotek	If glass screen, not in contact with surface of tube	ek nbotek Anbor	Nuotel

14	Components and subassemblies		P
14.1	Where safety is involved, components meet relevant requirements	Anbotek Anbotek Ar	P
14.2	Motors	Anbotek Anbo	abovek
14.2.1	Motor temperatures	ek anbotek Anbo	- abotek
Anbote	Does not present a HAZARD when stopped or prevented form starting; or	potek Anbotek Anbo	ek N Anbot
botek I	Protected by overtemperature or thermal protection device conform with 14.3	Anbotek Anbotek An	ostek N pot
14.2.2	Series excitation motors	An hotek Anboten	print
Anbotek	Connected direct to device, if overspeeding causes a HAZARD	ek Anbotek Anbotek	Anbonek Anbotek
14.3	Overtemperature protection devices	otek Anboin Antonio	Nnbote
lek Anbr	Devices operating in a SINGLE FAULT CONDITION	abotek Anbott An	atek N anto
botek p	a) Reliable function is ensured	abotek Anbote An	woter N
unbotekk	b) RATED to interrupt maximum current and voltage	Anbotek Anbotek	AnboiNe
Anbor	c) Does not operate in NORMAL USE	at Aupor Ar abotek	ArN
ek Aupo	If self-resetting device used to prevent aHAZARD, protected part requires intervention before restarting	nbotek Anborek Anbotek	e Nobore
14.4	Fuse holders	Anbotek Anbourtek	potek N P
nbotek	No access to HAZARDOUS LIVE parts	anbotek Anbo, P	Ň

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Clause	Requirement – Test	Result - Remark	Verdict
Anbore	And otek Anbores Anbor ak short	ek Anbors Ant	anbotak
14.5	Mains voltage selecting devices	otek Anboten Anb	N
Anbo	Accidental change not possible	Lotek Anbotek Anbo	N
14.6	Mains transformers tested outside equipment	knu untek anbotek Anbo	N
14.7	Printed wiring boards	Ant niek anbotek A	N
Anbotek	Data shows conformity with V-1 of IEC 60695-11- 10 or better; or	Anbotek Anbotek	AnborN Anbotek
Anboten	Test shows conformity with V-1 of IEC 60695-11- 10 or better	otek Anbotek Anbotek	N Anbote
iek pri	Not applicable for printed wiring boards with limited-energy circuits (9.4)	anbotek Anbotek Anbo	en N Anb
14.8	Circuits or components used as TRANSIENT OVERVOLTAGE limiting devices	Anbotek Anbote An	AnbolyN
Anbor	Test conducted between each pair of MAINS SUPPLY TERMINALS	ek Anbotek Anbotek	AntNte
Anbote	No HAZARD resulting from rupture or overheating of the component:	bolek Anbolek Anbor	N Andr
Put Put	- no bridging of safety relevant insulation	Anboten Anboutek an	ote ^k N P
otek	- no heat to other parts above the self-ignition points	Anbotek Anbor Pr	unbote N

15	Protection by interlocks		PUPC
15.1	Interlocks are designed to remove a hazard before OPERATOR exposed	botek Anbotek Anbot	Nenbor
15.2	Prevention of reactivating	hotek Anboten An	N
15.3	Reliability	Ann hotek Anbotek	Philoton
prin -otek	Single fault unlikely to occur; or	k sotek Anbotek	And N tek
Pup	Cannot cause a HAZARD	Anno otek onbotek	N

16	HAZARDS resulting from application	Anbote, Ant atek unb	otek P Anb
16.1	REASONABLY FORESEEABLE MISUSE	Anboter Anbo otek	hoote ^K N P
Anbotek	No hazards arising from setting not intended and not described in the instructions	Anbotek Anbotek	AnboNK
Anbotel	Other cases of reasonable foreseeable misues addressed by risk assessment	obtek Anbotek Anboten	Anbotel
16.2	Ergonomic aspects	abotek Anbote Ant	lek P unbr
otek p	Factors giving rise to a HAZARD the RISK assessment is reflecting those aspects:	Anborek Anbore And	potek P
nboten	a) Limitation of body dimensions	anboten Anbo	P'obot

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.N-	EN 61010-1	An woten p	nbo
Clause	Requirement – Test	Result - Remark	Verdict
Anboit	Annotek anboten Anbo	ak Anbors Ann watek	Anboret
Anboten	b) Displays and indicators	otek Anboten Anb	P
Anbot	c) Accessibility and conventions of controls	Lotek Anbotek Anbo	P
et No	d) Arrangements of TERMINALS	how otek unbotek Anbo	Р
HOK	anbotek Anbor ak botek Anboter	Ann stek anbotek A	100 N
7	Risk assessment	And sek abotek	Aupon-
Anborek	Rish assessment conducted, if hazard might arise and not covered by claused 6 to 16	Fully covered by clauses 6 to 16	► N
Aupotr	Tolerable rish achieved by iterative documented process covering the following:	hbotek Anbotek Anbo	N N
s. Pu,	a) RISK analysis	Anbote And otek An	po ^{tek} N
oter	identify HAZARDS and estimate RISKS	Anboten Anbo	obot N
anboten	b) RISK evaluation	Anboten Anbo	N
Anbotek	plan to judge acceptability of resulting risk level based on the estimated severity and likelihood of a rish	tek Anbolek Anbolek	Noot
k pinto	c) Rish reduction	abotek Anbote Ans	otek N
otek p	Initial risk reduced by counter measures:	An Anbotek Anboten An	N
nbotek	Repeated risk evalution without new risks introduced	Anbotek Anbotek	Anbonsk
Anbors	Risks remaining after risk assessment addressed in instruction to responsible body:	otek Anborek Anbotek	N
- abr	Information contained how to mitigate these rishs	tek nbotek Anbor	N
stek p	Following principles in methods of risk reduction applied by manufactuer in giver order:	Anbotek Anbotek Anb	obotek
hotek	1) RISKS eliminated or reduced as far as possible	Anbotek Anbo	N
Anbotek	2) Protective measures taken for risks that cannot be eliminated	ek Anbotek Anbotek	Anbote
Anbo	3) User information about residual risk due to any defect of the protective measure	onotek Anbotek Anbotek	N.nb
et pr	Indication of particular training is required	hotek Anboten Anb	N
botek.	Specification of the need for personal protective equipment	Ambotek Anbotek A	N.
Anbotek	Conformity checked by evaluation of the risk assessment documentation	ek probotek Anbotek	ArNote
DAYS	20° - 0°	0, bv, 56,	100

ANNEA	F ROUTINE TESTS	anbo'	pro-	boter	AND	
lapro	Manufacturer's declaration	ek sobote	Anbore	ATT Lotek	Anbr	ster N
1-Olor	Any Ash	No.	V LO	DUCH		194

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4.4.2	Table: Summary of single fault condtions			stek substek 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	Mer X	Anbotek	Anboten Anbot
4.4.2.2	Protective impedance	X	Anboro	Ante otek Ant
4.4.2.3	Protective conductor	botek	Xinbo	Ann-otek
4.4.2.4	Equipment or parts for short-term or intermittent operation	X	at pr	poter Antonek
4.4.2.5	Motors	X pol	John Lk	Ann hotek - Anboten
4.4.2.6	Capacitors	X	Anboro	Anto Lotek Anbote
4.4.2.7	Mains transformers	botek	Х	k work and
4.4.2.8	Outputs	Anbotek	X	Short-circuit were applied to all outputs. No hazard.
4.4.2.9	Equipment for more than one supply	anto	X	Anbor tek abotek
4.4.2.10	Cooling	X	nbotek	Anbon ek Anborel
4.4.2.11	Heating devices	Х	Anbotek	Anbon An
4.4.2.12	Insulation between circuits and parts	Х	hote	K Anbor An

5.1.3 c)	TABLE: M	AINS supply				N
Anboten	Marked rati	ng (V)	No or a	et a	Anboten An	p- stek
Anbote	Number of	phases		Allinotek	Anboten	Anon
Ant	Frequency	(Hz)	ek pilbore	All hotek	Antoten	Aupo
tek	Current (mA)					
Lotek	Power (W).	Ambo	anti anti	Ante Ante	otek - Anbot	el ^k
wotek.	Power (VA))		unbore: Am	wotek - Ant	ootek
Test No	Voltage (V)	Frequency (Hz)	Current (A)	Power in (W)	Power in (VA)	Comments
100	and - May	to be	- woton	anbo		4 - 10de

5.3	TABLE: [Durability	of marking			1	P	
Marking method (see note)				Agent				
1) Adhe	esive label	otek	anbotek	Anbois A	A	Water	otek	anbot
2) Ink p	orinted	hotek	Anbotek	Anbo	В	Isopropyl alcohol 70%	hotek	Ant
3) Lase	er marked	botek	Anbote	Anbu otek	С	(specify agent)	Annobote	ŀ.
4) Filme	coated (plastic	foil contr	ol panel)	oten Anu	D N	(specify agent)	Pro	Hatek

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346		stic (moulded in)	- water	bol		cify agent)	Ano	
		oplicable include p narking is fixed.	rint method, label m	aterial, ir	nk or pain	it type, fixing metho	od, adhesive and	
		Marki	ng location		Marking method (see above)			
Aupo	- Ide	ntification (5.1.2)	ote: Any		odek	Anbo	abotek Anbo	
Aupor	- Ma	ins supply (5.1.3)	abore pro-		Thotek	Anbour	abotek An	
ek An	- Fus	ses (5.1.4)	pabotes Ano		anbotel	Anbo, wak	An abotek	
botek	- Terminals, connections and operating devices (5.1.5)					otek Anboi	Anbotek	
Antonotek	- Sw	itches and circuit-b	oreakers (5.1.6)	Anbore	P	no untek anbo	tek Anbois	
Ano	- Doi	uble/reinforced equ	uipment (5.1.7)		p ^{ser}	Anu otek M	hbotek Anbo	
Ano	- Field-wiring TERMINAL boxes (5.1.8)				nboter	Anto	Anbotek Ant	
an Ant	- Wa	rning markings (5.	2)		1 Anboter	Anoustek	anbotek	
Metho	d	Test agent	Remains legible Verdict	Label Ver	loose dict	Curled edges Verdict	Comments	
Anbor	by,	A, B	P	note	5 p3	P	ek Bipote	

6	Т	ABLE: Prote	ection agai	inst electr	ic shock	ζ.				otek N pr
potek	BI	ock diagram	of the syst	em	Pupa		nootel	Anbo		
nbotek	Po	ollution degre	ee	Luboter.			3	Hek An	borb	
abotek	0	vervoltage in	stallation c	ategory	(e ^r	Anbo :	Ш	botek	Anboro	
Location		Insulation type	Max. working	Cree	page dis	tance (no	te 3)	Clearan ce (note	Test voltage	Comments
		(note 1)	voltage (note 2)	PWB	CTI Other		CTI	- 3) mm	(note 2)	
otek - 1		- Pr.	notet-	Anboter	Pup	*e¥	obetek	-Puppor		notel4_
BI = BASI DI = DOUI PI = PRO ⁻ RI = Reinf	C IN: BLE TECT orce	e of insulation SULATION INSULATIO FIVE IMPED d INSULATI ntary INSUL	N ANCE ON	IOTE 2 – ⁻ ² eak impul		oltage (pr	ulse) ((I	CATEGORI	ES (OVER ES) or PO which diffe hown unde	VOLTAGE LLUTION r from these

6.2	TABLE: Deterr	nination of accessible	parts	Р
	Item	Description	Determination method	Exception under 6.2.1
Anbote	otek Anbotek	Examination	The jointed test finger (see figure B.2) is applied in every possible position	Anbole And

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6.5.2.4	TABLE: Impedane	ce of protective bondi	ng of plug-connected eq	uipment	Ň
ACCESSIE	BLE part under test	Test current (A)	Voltage attained after 1 min (V)	Result	
Anbor	botek Ar	boten Anto stek	Anbotek - Anbot	hin thotels -	Anboten
Note(s):	k botek	Anboten Anbo	subotek Anbors	All shotek	Anborr

6.5.2.5	TABLE: Impedance equipment	ce of prote	ctive bondi	ng of perm	nanently	connect	ed	ibotek N
ACCESSIB	LE part under test	Voltage a	ttained (s)	Time for y below allo	voltage t wable le	o drop evels(s)	Res	sult
Althotek	-Anboten An	stek	Anbotek	Aupor	pr.	botek	Anboten	Anba
Note(s):	Anboten	Anburgek	abotek	Anbor	N-	Annotek	Anboten	Anbo
burger	w woter	anbo	P.	to Ma	00101	Bur	N	iek and

6.7	TABLE:	Insulation	requiremen	ts			o ^{oten} N
8	Resistance to mechanical stres			ses	abotek Anbot	e. Ant wotek	N DOTEN
10.5.1 Integrity of CLEARANCES and CREEPAGE DI				STANCES	poter Anu	N	
	Location		initial CRE DISTANC		Initial CLEARANCE (mm)	Maximum working voltage (V)	Comments
34 46	potek P	unbo.	photok-	Anbote	Anu otek	anbotek	rupo. M
Note(s):	Anbotek	Anbo	, botel	Anb	one Ann	ak Anbotek	Ambor
	cal tests, ∋ (N)	Static	Dy	rnamic	Drop test, normal	Drop test, hand- held	Comments
hotek-	- Anbot	Pur	unter A	n e otek	Anbo	Jootek - Anbore	Annue
Note(s):	at antic	He. Pl	-of	abotek	Puppor	wotek anb	Pro Puo

6.8 TABL	E: Dielectric strength	tests for protection	against the spre	ad of fire P
Location	Working voltage (V)	Test voltage (V)	Result	Comments
Input to accessible part	e	DC 500V	otek PAnbotek	Anborek P Anborek

6.10.2	TABLE: Co	rd anchora	ge tests	10.4	ч. "Ур ^{о"}	pa. M	A N
Lo	ocation	Mass kg	Pull N	Verdict	Torque Nm	Verdict	Comments
Anbotek	-Anbo	in abotek	pnb	540 P	hotet - al	nhotek - Anbu.	rek pootek
Note(s): No	o cord provided	d no	tek 1	nbote	Ann	anbotek Ant	on hi hotel

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8 TABLE	: Resistance	to mechanic	al stresses			ibote ^k P
Llocation	Static	Dynamic	Drop test, normal	Drop test, hand-held	Result	Comments
Enclosure	sten And	Pass	botek - Anbe	10 - Pin-	Pass	And And

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 1	TABLE: Protection a	gainst the s	pread of fire		Piek	
Item	Source of hazard considered (circu			Protection method (9a, 9b, 9c)	Protection details	Comments
Plastic parts	Aupo,	hotek	Anboten	9a	Anbotek Ar	100, bi.
Note(s):	otek Anbola	Prot Potek	Anboten	Antheretek	abotek	Anbor

9.3.1	TABLE: Containment of fire within the equipmer	nt	PUL
14.7	Printed wiring boards	stek Anburget abotek	Noon
Aupon	Material tested:	ibotek Anbo, tek abot	
n Anto	Generic name:	Anbotek Anbo jek of	
stek p	Material manufacturer:	Anbotek Anbo. A.	
obotek	Type designation:	Anbotek Anbo	
anbotek	Colour:	ek Anbotek Anbo	
Anbotel	Conditioning details	otek unbotek Anbor	
Anbr Hek A	Thickness (mm):	1 – 2 – 3 -	
Anbotek	Duration of flaming after first application (s) :	1	
Anbo Anbo	Duration of flaming plus glowing after second application (s):	1 – 2 – 3 -	
Anbotek	Specimen burns to holding clamp (Yes/No):	1 - 2 - 3 -	
Anbor	Cotton ignited (Yes/No):	1 – 2 – 3 -	

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Test details: 1 –Location; 2 – maximum vo current (A); 4 – maximum power(VA); 4 – circuit separation; 6 – decision(Yes/No); 7	overload protection after 120s(A); 5 -
	Commonito
1 2 3 4	5 6 7
Anton pin welk about pin -	a wolter share pin wolt

9.5	TABLE: Re	TABLE: Requirements for equipment containing or using flammable liquids					
Anborek	Test details: 1 –Type of liquid; 2 –flammable liquids (b. quantity); 3 – flammable liquids (containment); 4 – comments						
1		2	3		4		
V.	hoten Ant	n sek	Anbors An	boten Anos			

-otek	Anboten	Anbo	abotek	Anbort	p.u.	otek b	nboten	Ano
10	TABLE:	Temperature n	neasurements					Ante
10.1	Surface	temperature lim	its – NORMAL COI	NDITION and	d / or sigi	NLE FAULT C	ONDITION	P
10.2	Tempera	ature of winding	S- NORMAL CONDI	TION and /		FAULT CON		N Anto
10.3	Other ter	mperature meas	surements	Lotek	Anboton	AUDA	self is	otek P A
Operating	conditions:	Normal workir	ng	-otek	Anbote	bup.		
anbotek	Frequen	cy (Hz)	pribotor	Pure state	- ant	otek A	upor	
anbotek	- 1/5 M		L Anboron	1. 1. 1. C	1	hour 5) min	
anbote	Voltage	(V)	stek suboter	······	otek.	anbotek	Anbou	
ik anbi	100	MON PAR	(°C)	10	28 ℃	anboten	Aupor	
iote ^k A	maximur		location; 2 – mea m + 40°C – Ta (° nents					anbotek vootek
1	l	2	3	4	1	5		6
PCB	Anbo	otek - Anbo	51.3	1(00	Anbotek P	Anbors	Anbot
Terminal	notek pr	Anbotek Ar	50.7	12	20	Anbole P	ok por	otek pril
Button	nbo botek	Anbotek	43.5	Motek 10	00 Anbote	P	potek	unbotek
Transforme	er Anbotek	Anbola	67.6	Anboten 13	30	bote ^K P	Anbotek	Anboro
Internal wir	re Anboi	otek Anton	54.8	10)5	Anbotek P	Anbolon	6 Anbote
Screen	riek hu	obotek - An	44.2	otek 7	5 ootek	Anbotes P	Arras	otek - Ant
Enclosure	abotek	Anbotek	42.5	nootelt 12	20	P	otek p	nbotek I
Note(s):	ph. botek	Anboten	p.nb-	anbotek	Puppo	- Aller	abotek	Anboten

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10.2	TABLE: Ten	nperature of re	esistance met	hod tempera	ature measure	ments	N
4.4.2.7	MAINS Trans	formers	ek anbotel	Aupor	tothe proof	ek Aupon	N
14.2.1	Motor tempe	eratures	stek sab	Hok Anb	alt in	ootek Ant	N PX
Operating c	conditions:	nboten An	dek N	obotek I	uppor pr	botek	1
,00'	Frequency (I	Hz)	Ann		Anbor	printbotek	
Anbol	Duration (h,	min)	Anu		hour	min	
Aupon	Voltage (V).	puboter.	And	i N	Anbor	K bote	6
Puppor	Ambient tem	perature Ta₁ /T	a₂(℃)		stek / Aube	C(initial/final)	63
ek Anb		nts: 1 – part/des 7 – result; 8 –		R _{cold} W; 3 – R	R _{warm} W; 4 – Tr (K); 5 – T₅ (℃)	nbotek
1	2	3	4	5	6	7	8
Anu	obotek	pupo.	- otok	Arboto.	prin tek	abotek	bropo.
(Tc= Tr - { Note(s): 2 -	Ta2 – Ta1} + - Indicate insu - Record value	[40 °C or max lation class (IE	rated ambient] C 85) under c); Tmax = m omments (op	r = temperature aximum permit otional) It condition in tl	ted temperatu	Ire

10.5.2	TABLE: Resistance to	heat of non-metallic enc	osures	P P
Ann	Test method used:	wet shotek Anb	See below	
Aup	Non operative treatmen	t	. [V]	PAnb
Prop	Empty ENCLOSURE	And the second second	. [√]	o ^{tek} P F
oter p	AV N	and	101	nbotek
	Part	Test temperature (°C)	Duration (h, min)	Verdict
Anboten	Enclosure	125	antote 1h Ano stek	Botel
woler.	Dielectric strength test ((6.8)	. 500 V r.m.s./peak/d.c	Р
	Dielectric strength test ((0.0)	. 500 V T.III.S./peak/u.c	100
Note(s): No	o hazardous live parts shall	N	. 500 v T.III.S./peak/d.c	itek p
. Pro	100 100	l be accessible	. 500 V T.III.S./peak/d.c	tek A
10.5.3	o hazardous live parts shall	l be accessible	. 500 V T.III.S./peak/d.c	Hek p
10.5.3	o hazardous live parts shall TABLE: Insulating mater Ball pressure test	l be accessible	2 mm	tek A
10.5.3	o hazardous live parts shall TABLE: Insulating mater Ball pressure test	l be accessible ials	Anbotek Anbotek Anbotek Anbotek abc	tek A
10.5.3	o hazardous live parts shall TABLE: Insulating mater Ball pressure test Max. allowed impression	l be accessible ials n diameter	2 mm	P P
Note(s): No 10.5.3 10.5.3a)	o hazardous live parts shall TABLE: Insulating mater Ball pressure test Max. allowed impression Part	l be accessible ials n diameter Test temperature (°C)	2 mm Impression Diameter (mm)	P P Verdict

Note(s): No hazardous live parts shall be accessible

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10.5.3	TABLE: Insulating mate	rials		hbote ^K N
10.5.3b)	Vicat softening test (IS	O 306)	Anboten Anbo	N
	Part	Vicat temperature (°C)	Thickness of sample (mm)	Verdict
Anbotek	Aupo rek opc	rek Anbote Ano	otek anbotek Anbu	n - nbote
Note(s):	rek Anbo. A.	hotek Anbote An	hotek Anbotek Anbo	welt ant

11	TABLE: Protection against hazards from fluids							N ⁻ N	
Anbotek	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	
Bup	- Ko	hotek - P	abon -	Hote .	unboter.	And		4 <u>- p</u> 3	

11.7.2 TABLE: Leakage and rupture at high pressure Ν Part Test pressure Leakage test Burst test Comments Maximum permissible (Mpa) Yes / No Yes / No working pressure (Mpa) <u>. 18</u> -- 162 40 ------Note(s): 11.7.3 **TABLE:** Leakage from low-pressure parts N Measurements: 1 - ; 2 - (Pa); 3 -; 4 -Part Test pressure Leakage (Yes/No) Comments 10 DS. τċ. Note(s):

- allor	201	-at		Per-	10 C	100 C	ARY		May
12.2.1	TABLE: Ioni	zing radiati	ion					۶Ň	
Lo	ocation	Measure	Measured values µSv/h Verdict		t Cor		omments		
e Pubr	Jek ubr	Net pr	ipoin bui	hotek	Anboten	AUDA	Hok	unto tek	pinto
Note(s):	po sek	obotek	Anboro A	hote	K Anbote	Ant Ant	Hek	nbotek	1
12.5.1	TABLE: Sou	TABLE: Sound level measurements						N	8
Location			Measured values dBA			Calculated maximum sour pressure level			b
Pur	ek - Aupoter	Pupe	set sob	ote <u>k</u>	Anboro	Pur	e preje	oter pi	up.
Note(s):	otek Anbo	tex pul	atek ha	abotek	Anboro	A M	otek	nbotek	Pup.
12.5.2	TABLE: Ultra	asonic pres	ssure measur	ements	i			looten N	P
Lo	ocation		Measured v	alues			Comme	nts	

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		dE	3	kHz			
nboten	anbu stek	Anbotek	Anbors	All notek	Anboten	And	anborek.
Note(s):	Anbu	anbotek	Anbor	Arr hotek	Anboten	Anbu	nbotek

13.2.2	TABLE: Batteries tests	5				16.	N
Helt M	Battery load and chargin	ng circuit diagram:	Ant Lotek	anbote	W Aupr		
otek	Battery type	pobote :	Anu	K ant	otek A		
no-	Battery manufacturer	poboter :	Ann	otek .	nbotek		
Ano	Battery model	and the second s	And	otek	Anbotek		
Ano	Battery catalogue No		pter p	Ind-	Anbotek		
Anb	Battery ratings		nboten	Anbo	t sobo		
len bu	Reverse polarity instalm	ent test	Anboten	Anbu	Jek N	potek	N p
Single	e component failures		Verdi	ict			
	Component	Open circuit, result	t	Sh	ort circuit, re	esult	
Anbotek	Anbo hek abo	at Anboro Ano	otek b	nbotek	Anbo rek		abotek
Note(s):	ek Anbors And	otek Anboren Anb	. et	- abotek	Pupore		

14.1 TABLE: Components P Object/part No. Manufacturer/trad emark Type/model Technical data Mark(s) of conformity Image: State State

Note(s): 1) an asterisk indicates a mark which assures the agreed level of surveillance

14.3	TABLE: Overte	emperature protection d	levices	Part N set
Reliability te	est:			· · · · · · · · · · · · · · · · · · ·
Corr	nponent	Type(see note)	Verdict	Comments
Pun	otek unbole	K Anbor At	botek Anbote, Anu	otek untotek An
NR = non-re	-self-resetting (10 esetting (1 time) esetting (200 time	nb- otek Anbotek	Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek

14.6	TABLE: Mains transformers tested outside equipment	Kelt N Anto
oler.	Type:	
No.	Manufacturer	

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ootek pr	Temperature protection class of the lowest RATED winding (class or maximum RATED temperature) .:	Anbote: Ano	lok p
	Winding identification		boten
Anotok	Type of protector for winding:	tek nbotek	Anboten
		Short circuit	Over load
K M	Elapsed time:	nbu 1s abotek	Is https://www.
half.	Current, primary (A):	Anbor An abot	ok protocil
- alt-	Current, secondary (A):	Anbor	potek Hebote
nbo,	Winding temperature, primary (°C)	Anbon pak	abotek - Anbote
Aupon	Winding temperature, secondary ($^{\circ}C$):	tek hopon	phi-botek Anbote
Pupo,	Tissue paper/cheesecloth test:	hotek -Anboi	part Anbr
Ant	Voltage test:	botek Anbor	prin and

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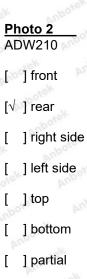
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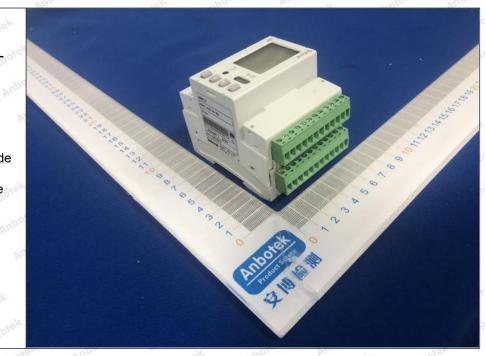


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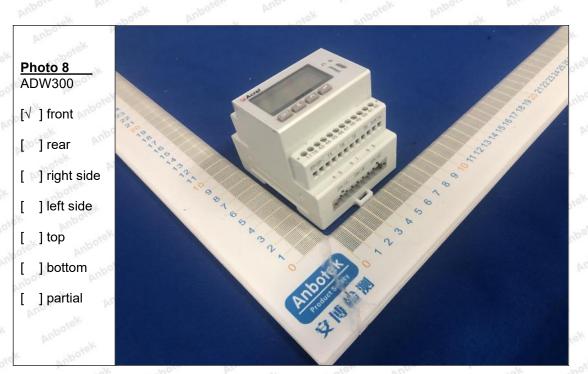
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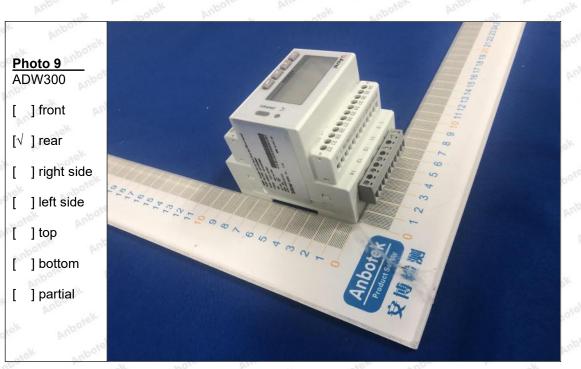
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