

### Anbotek (Guangzhou) Compliance Laboratory Limited Page 1 of 52 Report No.: SZAHS200102001-01

### **APPLICATION FOR LOW VOLTAGE DIRECTIVE**

On Behalf of Acrel Co., Ltd.

### 

### Model: ADL400, ADL400-C, ADL400-F, ADL400-H

Prepared For : Acrel Co., Ltd. No.253, Yulv Road, Jiading District, Shanghai, China

Prepared By

Anbotek (Guangzhou) Compliance Laboratory Limited Room.508, Building 2, No.232, Kezhu Road, Science City, Guangzhou Economic & Technology Development Area, Guangzhou, Guangdong, China.

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Date of Test:Jan. 02, 2020to Jan. 10, 2020Date of Report:Jan. 10, 2020Report Number:SZAHS200102001-01

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ek abotek Anbon An	TEST DEDODT
	TEST REPORT
hbote Anu stek shotek	EN 61010-1
	electrical equipment for measurement, control, and y use Part 1: General requirements
Report reference No.	SZAHS200102001-01
Compiled by:	Elaiven Zhuang
Approved by:	Elaiven Zhuang Terry Tian
Date of issue:	
Contents::	
Testing laboratory:	Anbotek (Guangzhou) Compliance Laboratory Limited
Address:	Room.508, Building 2, No.232, Kezhu Road, Science City, Guangzhou Economic & Technology Development Area, Guangzhou, Guangdong, China.
Testing location:	Same as above
Applicant:	Acrel Co., Ltd.
Address:	No.253, Yulv Road, Jiading District, Shanghai, China
Test specification	Anboha Ano tek anbotek Anbei k votek
	EN 61010-1:2010
Test procedure::	LVD test report
Type of test object	tek spotek Anbole Anti stek spotek Anti
Description:	ADL And
Trademark:	Acrel
Model/type reference:	ADL400, ADL400-C, ADL400-F, ADL400-H
Manufacturer:	Jiangsu Acrel Electrical Manufacturing Co., Ltd.
Address:	No.5, Dongmeng Road, Nanzha Street, Jiangyin City, Jiangsu Province, China
Factory:	Same as manufacturer
Address:	Same as manufacturer
Rating:	220-230V, 50Hz/60Hz, 80A

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## Anbotek **Product Safety**

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Test item particulars	nbo hek sootek Anbote. Anb
Pollution degree	: All Annotek Arbotek Andor
Protection degree Operating conditions Connection to supply mains	Class III equipment
Operating conditions	: Continuous operation
Connection to supply mains	: None
Special protection to IEC 60529	: IP20
Possible test case verdicts	notek Anboleh Anbol eek ubotek
- test case does not apply to the test object	: N (N.A.)
- test object does meet the requirement	
- test object does not meet the requirement	
Testing	er Anton tek anbotek Anbone Anton
Date of receipt of test item	: Nov. 07, 2019
Date(s) of performance of test	: Jan. 02, 2020to Jan. 10, 2020
General remarks	Anbotek Anboli at botek Anboten
"(See remark #)" refers to a remark appended to the r	eport.
"(See appended table)" refers to a table appended to	
Throughout this report a dot is used as the decimal se	eparator.
The test results presented in this report relate only to	the object tested.
This report shall not be reproduced except in full without	but the written approval of the testing laboratory.
According to the EU directives which have been al	igned 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 accompa	anying the product before the product is placed on the EU
100' DV	

market.

Copy of marking plate

ADL Model No: ADL400 Rating: 220-230V, 50Hz/60Hz, 80A

F Jiangsu Acrel Electrical Manufacturing Co., Ltd.

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Clause	Requirement – Test	Result - Remark	Verdict
More	anbotek Anbon An antek anbotek	Anbo set sofek	Anboro
4.4	TESTING IN SINGLE FAULT CONDITION	iek Anbort Ant	Potek
4.4.1	Fault tests	hotek Anboten Anbo	P
4.4.2	Application of fault conditions	hotek Anbotek Anbo.	Р
4.4.2.1	Single fault conditions not covered by 4.4.2.1 to 4.4.2.12	Anbotek Anbotek Ant	nbotek N
4.4.2.2	Protective impedance	Anboten Anbo	N
4.4.2.3	Protective conductor	ek Anbotek Anbo	Notek
4.4.2.4	Equipment or parts for short-term or intermittent operation	botek Anbotek Anbo	N
4.4.2.5	Motors	inboten Anbo	N N N
4.4.2.6	Capacitors	Anboten Anbo	,bote <sup>N</sup> N
4.4.2.7	Mains transformers	Anbotek Anbo	P <sup>K</sup>
4.4.2.7.2	Short circuit	al unbotek Anbol	Notek
4.4.2.7.3	Overload	tek nbotek Anbots	N
4.4.2.8	Outputs	hek abotek Anbote	Panta
4.4.2.9	Equipment for more than one supply	Anbor Lok abotek Anb	P
4.4.2.10	Cooling	Anbo's An hotek	iboten N
4.4.2.11	Heating devices	Anbola Ann hotek	AnbolN
4.4.2.12	Insulation between circuits and parts	Anbore Ann otek	Botek
4.4.2.13	Interlocks	clek Anbote, Ante	N
4.4.2.14	Voltage selectors	botek Anboten Anbo	N
4.4.3	Duration of tests	antotek anbotek Anbr	Р
4.4.4	Conformity after application of fault conditions	Arris Lek botek A	P.

5	Marking and documentation	Anbote, Anu botek	An Prok
5.1.1	General	lek Anbols And And	Pinborok
Ann	Required equipment markings are:	potek Anbor An	ek - Anbo
Anbo	Visible:	anbotek Anbots An	otek P M
potek Ar	From the exterior; or	abotek Anbote Ar	Р
Anbotek	After removing a cover; or	abotek Anboten	Ano Nek
anbotek	Opening a door	at hotek Anboten	Ann N .ek
· notek	After removal from a rack or panel	An hotek Anbotek	N
k Anbol	Not put on parts which can be removed by an operator	potek Anbotek Anbot	N Anbo
otek Ar	Letter symbols (IEC 60027) used	botek Anbotet An	Р

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Clause	Requirement – Test	Result - Remark	Verdict
Mar	wotek Antoria Anto tek mbotek	Anboy Antoniak	Anboret
Anboit	Graphic symbols (IEC 61010-1: Table 1) used	ek Anboten Ano	Photel
5.1.2	Identification	otek Anboten Anbo	
Anbo	Equipment is identified by:	potek anbotek Anbo.	Р
ok p'	a) Manufacturer's or supplier's name or trademark	Ant antek Antotek Ant	Р
otek	b) Model number, name or other means	And tek anbotek	nbol P
Notek-	Manufacturing location identified	Anbo tek obotek	Aup dut
5.1.3	Mains supply	Anbo Lek abotek	Pupole.
Anbo	Equipment is marked as follows:	ofer Anbors An	- Anloc
Aupo	a) Nature of supply:	nbotek Anbols An	10H -
otek Ar	1) a.c. rated mains frequency or range of frequencies	Anbotek Anbotek An	nbotekP
Not	2) d.c. mark with symbol 1 of Table 1	Anboi Ak shotek	AnboP
Anbo	b) Rated supply voltage(s) or range	Anborn Ann hotek	Poter
Anbo	c) Max. rated power (W or VA) or input current	otek Anbote Ano	Panbo
k Anbo	The marked value not less than 90 % of the maximum value	nbotek Anbotek Anb	N N
404	If more than one voltage range:	Anbor An wotek	N <sup>ooten</sup> N
	Separate values marked; or	Anbota An Lotek	anto N
Anbon	Values differ by less than 20%	Anboron Anno otek	N
Aupor	d) Operator-set for different rated supply voltages:	otek Anboten Anb	- 000
Anboi	Indicates the equipment set voltage	hotek Anbotek Anbo	N
h Ani	Portable equipment indication is visible from the exterior	Anbotek Anbotek Ano	botek N
	Changing the setting changes the indication	Anboro Ano Ano	NodN
unbol abotek	e) Accessory Mains socket-outlets accepting standard MAINS plugs are marked:	Anboler Anbolek	Anbotek
Anbott	With the voltage if it is different from the mains supply voltage	botek Anbotek Anbotek	N <sup>abo</sup>
Ant	For use only with specific equipment	botek Anbote, And	N Mark
, ek	If not marked for specific equipment it is marked with:	Anbotek Anbotek Ar	anbotek
nbol	The maximum rated current or power; or	Anbore Anto atek	N
Aupore	Symbol 14 with full details in the documentation	lek Anboren Anbo	N
5.1.4	Fuses	notek Anbotek Anbot	Р
Ant	Operator replaceable fuse marking (see also 5.4.5):	Anbotek Anbotek Anbo	potek N
5.1.5	Terminals, connections and operating devices	nbotek Anbo, Al	~ P

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tok Anb	EN 61010-1	h Antotek Antote Ant	
Clause	Requirement – Test	Result - Remark	Verdict
Morek.	Anboten Anbo hak soutek Anbote.	Ant stek speakek	Aupola
5.1.5.1	General	k Anbo. An abotek	Poten
	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators marked	otek Anbois Ain obotek Anbotek Anbote	P Anbo
lek Aup	Insufficient space, symbol 14 used	botek Anbote And	N
botek p	Push-buttons and actuators of emergency stop devices and indicators:	Anbotek Anbotek	Anbotek
Anbo	used only to indicate a warning of danger or	Anbors An-	Notek
Anboit	the need for urgent action	otek Anbote Anv	N
Anboro	coloured red	abotek Anboter Anb	N
lek Aupo	coded as specified in IEC 60073	hotek Anbotek Anb	N
botek A	Supplementary means of coding provided, if meaning of colour relates (see IEC 60073):	Anna Anbotek Anbotek A	N
Anboi	to safety of persons; or	Anboten Anto stek	Notek
Anboro	safety of the environment	tek Anboten Anbo	N
Anbore.	Indication of emergency stop devices	hotek Anbotek Anbo	N
5.1.5.2	Terminals	nt otek Anbotek Anbr	- Mar
otek A	Mains supply terminals identified	Anti-	N
Lotek	Other terminal marking:	And tek nbotek	Anbort
Annatek	a) Functional earth terminals (symbol 5 used)	Anbo tek sobotek	N
Anviek	b) Protective conductor terminals:	tek Anbo. A. botek	PAnbot
Anbo	Symbol 6 is placed close to or on the terminal;	botek Anbor Ar	ek P Ant
Aupo	Part of appliance inlet	Anbotek Anbote An-	N Vertex
potek Ar	c) Terminals of control circuits(symbol 7 used)	Anborek Anbore A	N
Anbotek	<ul> <li>d) Hazardous live terminals supplied from the interior</li> </ul>	Anbolek Anbotek	Anbotek
Anbo	Standard mains socket outlet; or	lek Anbois Am	Nnbote
Anbo	Ratings marked; or	botek Anbote An	et N ant
k Anbo	Symbol 14 used	anbotek Anbote, Ano	N N
5.1.6	Switches and circuit-breakers	hotek Anboten Ar	N
abotek	If disconnecting device, off- position marked	Antotek Anbotek	And N
abotek	If push-button used as power supply switch:	An- notek Anbotek	P. N
A. botek	Symbol 9 and 15 used for on-position	e. Anto stek subotek	Nipol
An	Symbol 10 and 16 used for off-position	poter And tek abot	<sup>dh</sup> N pr <sup>b</sup>
Augo	Pair of symbols 9, 15 and 10, 16 close together	abotek Anboi An	ot <sup>ek</sup> N

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Clause	Requirement – Test	Result - Remark	Verdict
100°	notek Anbolan Anbo	Anbore Ant	Anbotek
5.1.7	Equipment protected by double insulation or reinforced insulation	ek Anbolen Anbolek	N <sub>otek</sub>
h. bot	Protected throughout (symbol 11 used)	hors An wotek Anbote	NANDO
Nr. N	Only partially protected (symbol 11 not used)	Anbore Ant atek Anb	ot <sup>ok</sup> N P <sup>3</sup>
5.1.8	Field-wiring terminal boxes	No such parts	abotek_
pore.	If terminal or enclosure exceeds 60°C:	Anbotek Anbo	N
Anboto	Cable temperature rating marked	ek anbotek Anbo	Notek
Anboten	Marking visible before and during connection or beside terminal	otek Anbotek Anbote	N
5.2	Warning markings	Anboten Anbo yek	Nek - M
Ani	Visible when ready for normal use	Anbotek Anboi An	-bote <sup>K</sup> P
pote.	Are near or on applicable parts	anbotek Anbots	P
Anboten	Symbols and text correct dimensions and colour:	it anbotek Anboth	Potek
Anbotek	a) symbols min 2,75 mm and text 1,5 mm high and contrastingin colour with background	tek Anbotek Anbotek	P
And Ant	b) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and	nbotek Anbolisk Anbo	ret P pr
potek	0.5 mm depth or raised if not contrasting in colour	Antotek Antotek A	P
Anboro	If necessary marked with symbol 14	k Anbotek Anbo	Potek
Anboter. Anbote	Statement to isolate or disconnectif access byusing a tool to HAZARDOUS LIVE parts is permitted	notek Anbotek Anbotek	PAnbot
5.3	Durability of markings	notek anbotek Anbo	Р
otek I	The required markings remain clear and legible in normal use	(see appended table)	Anbotek
5.4	Documentation	Anboles Anbo	Astoda.
5.4.1	General	olek Anboten Anbo	P
Anbore	Equipment is accompanied by documentation for safety purposes for operator or responsible body	botek Anbotek Anbo	ek P Ant
otek pro	Safety documentation for service personnel authorized by the manufacturer	Anbotek Anbotek An	pot <sup>ek</sup> N
Anbotek	Documentation necessary for safe operation is provided in printed media or	Anbotek Anbotek	Anborek
Aupo.	in electronic media if available at any time	tek Anbore Anbo	Pubote
Anboie	Documentation includes:	hotek Anbotek Anbo	24
Anbo	a) Intended use	notek Anbotek Anbot	Р
10K	b) Technical specification	Anon ak hotek an	Р

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Clause	Requirement – Test	Result - Remark	Verdict
Nor	notek Anboien And tek mbotek	Anbois Ann Lotek	Anborok
Anbois	c) Name and address of manufacturer or supplier	ek Anboten Anu atek	Potek
Anbore	d) Information specified in 5.4.2 to 5.4.6	otek Anboten Anbo	P
Anbo	e) Information about how to mitigate risks remaining	Inbotek Anbotek Anbo	P <sup>tek</sup> P <sup>M</sup>
botek	f) accessories for safe operation of the equipment specified	Anboten Anbotek	Anbote <sup>k</sup> P
Anbotek	<ul> <li>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</li> </ul>	ak Anbotek Anbotek otek Anbotek Anbotek	Anbo Anbotek Anbot
Anbo	h) Instructions for lifting and carrying (see 7.5)	inbotek Anboi Ai	Nex N AN
otek Ar	Warning statements and a clear explanation of warning symbols:	Anbotek Anbotek An	nbotekP
in otek	Provided in the documentation; or	Anbo helk sbotek	AnboN
Anb	Information is marked on the equipment	Anboy An potek	Noton
5.4.2	Equipment ratings	prek Anboi An hotel	Anbot
Aupo	Documentation includes:	nbotek Anbors An-	tek - Ant
ok An	a) Supply voltage or voltage range	220-230V	etek P
potek	Frequency or frequency range	An anboten A	N
abotek	Power or current rating	80A Model	Anbo P
Anbotek	b) Description of all input and output connections in accordance to 6.6.1 a)	Antotek Anbotek Anbotek	Anbote
Anbor ak an	<ul> <li>c) Rating of insulation of external circuits as required by 6.6.1b)</li> </ul>	Anbotek Anbotek Anbo	N Ant
potek	d) Statement of the range of environmental conditions	Ambient temperature: 5°C~40°C	botek P
Anbotek	e) Degree of ingress protection (IP, IEC 60529)	IPX0	Parek
Anbotek	f) Impact rating less than 5 J	ek abotek Anbote	P
Anbote	IK code in accordance to IEC 62262 marked or	rek sootek Anboten	N
the H	symbol 14 of table 1 marked, with	hotek Anbo	P P
Jiek.	RATED energy level and test method stated	Anborr An notek A	PO <sup>NER</sup> N
5.4.3	Equipment installation	Anbore Anu Lotek	anboten
Anbol	Documentation includes instructions for:	Anboien Anbo	Antrotek
Anboro	a) Assembly, location and mounting requirements	blek Anboron Anbo	Pripotel
Anbote	b) Protective earthing	notek Anbotek Anbo	N
k Aulo	c) Connections to supply	hotek Anbotek Anbo	P
hek .	d) Permanently connected equipment:	And stek suboten Ar	

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Clause	Requirement – Test	Result - Remark	Verdict
poto	tek sabotek probote Am	Anbotek Anbo	bolet
Anbotok	1) Supply wiring requirements	K Anbotek Anbote	Notek
Anborek	2) If external switch or circuit-breaker, requirements and location recommendation	otek Anbotek Anbote	N Anbo
Pupp-	e) ventilation requirements	unbotek Anipo A	ste <sup>k</sup> N N
bu Bug	f) special services (e. g. air, cooling liquid)	Anbotet Anboi pi	Notek
orok	g) Instructions relating to sound level	Anboten Anbote	N
5.4.4	Equipment operation	A nbolek Anbole	hov - otek
Anbotek	Instructions for use include:	tek totek Anboten	p.nb-
Anbote	a) identification and description of operating controls	(see user manual)	Р
enb Anb	b) Positioning for disconnection	abotek Anbote And	N
potek I	c) Instructions for interconnection	hotek Anboten A	P
abotek	d) Specification of intermittent operation limits	(see user manual)	Anber P
botek	e) Explanations of symbols used	And sotek Anbotek	Р
hore	f) Replacement of consumable materials	oren Anbo otek Anbolek	Nanbo
hun m	g) Cleaning and decontamination	nboter Anboutek nbo	iet N An
otek I	h) Listing of anypoisonous or injurious gases and quantities	Anbotek Anbotek A	ibo <sup>tek</sup> N
Anbotek	i) RISK reduction procedures relating to flammable liquids (see 9.5)	Anbotek Anbotek	Anbola N
Anbore	j) RISK reduction procedures relating burn from surfaces permitted to exceed limits of 10.1	tek Anbotek Anbotek	Nanbot
K Aup	Additional precautions for IEC 60950 conforming equipment in regard to moistures and liquids	Anbotek Anbotek Anbo	lootek
unbotek	A statement about protection impairment if used in a manner not specified by the manufacturer	Anbotek Anbotek	AnbolN
5.4.5	Equipment maintenance and service	stek Anboten Anbo	- abote
Anboro	Instructions for responsible body include:	hotek Anbotek Anbo	- 40
h Anbo	Instructions sufficient in detail permitting safe maintenance and inspectionand continued safety:	Anbotek Anbotek Anbo	potek P
nbotek	Instruction against the use of detachable MAINS supply cord with inadequate rating	Anbotek Anbotek Notek	Anbolek Anbotek
Anbo.	Specific battery type of user replaceable batteries	ek Anbotek Anbotek	P
, nbo	Any manufacturer specified parts	nov A. botek Anbot	P And
N.	Rating and characteristics of fuses	Anbo' An	poten P

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Clause	Requirement – Test	Result - Remark	Verdict
Nor	notek Anbore Ane tek spoteh	Anbo	Anboton
Anbort	Instructions include following subjects permitting safe servicing and continued safety:	ek Anboten Anbotek	Potek
Anto	a) product specificRISKSmay affect service personnel	poten Anbo	PAnbo
rok Aor	b) protective measures for theseRISKS	And stek anbotek Anb	Р
wotek	c) verification of the safe state after repair	Anbo tek nootek	nbote P
5.4.6	Integration into systems or effects resulting from special conditions	ek Anbotek Anbotek	Anbon
Anboten	Aspects described in documentation	tek abotek Anbot	N

6	Protection against electric shock		re - An
6.1	General	Anbor An potek	upoten
6.1.1	Requirements	Anborn Ann hotek	Anboten
Anborek	Protection against electric shock maintained in NORMAL CONDITION and SINGLE FAULT CONDITION	Comply with requirement	Anbote
Ano	ACCESSIBLE parts not HAZARDOUS LIVE	nbotek Anbo. At	iek P Ant
botek k	Voltage, current, charge or energy below the limits in NORMAL CONDITION and in SINGLE FAULT CONDITION between:	Anbotek Anbotek An Anbotek Anbotek A	tbotek P
Anboro	ACCESSIBLE parts and earth	Anbotek Anbo	Notek
Anboten	Two ACCESSIBLE parts on same piece of the equipment within a distance of 1,8 m	tek Anbotek Anbotek	P
ok Aul	Conformity is checked by the determination of 6.2 and 6.3 followed by the tests of 6.4 to 6.11	nbotek Anbotek Anbo	en P Anb
6.1.2	Exceptions	h abotek Anbote. Ar	der.
Anbotek	Following HAZARDOUS LIVE parts may be accessible to an OPERATOR:	Anbotek Anboten	Anbo N Anbotek
Anbor	a) parts of lamps and lamp sockets after lamp removal	tek Anbore And	N <sub>Anbotel</sub>
ak Ant	b) parts to be replaced by operator only by the use of tool and warning marking	Anbotek Anbotek Anbot	N And
poten l	Those parts not hazardous live 10 s after interruption of supply	Anbotek Anbotek An	AnbotN
Anbotek	Capacitance test if charge is received from internal capacitor	ek Anbotek Anbotek	AnNten
6.2 Marbote	Determination of accessible parts	stek subotek Anbois	Pup
6.2.1	General	tek sobotek Anbol	- Aup
o <sup>tek</sup> I	Unless obviously determination of accessible parts as specified in 6.2.2 to 6.2.4	Anborek Anborek An	P A

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Clause	Requirement – Test	Result - Remark	Verdict
101- V	notek Anbotek Anbo h.	Anboter Anb	boloth
6.2.2	Examination	k anbotek Anbo	Pote
Anborok	- with jointed test finger (as specified B.2)	stek subotek Aubor	Р
Anbore	- with rigid test finger (as specified B.1) anda force of 10 N	Anbotek Anbotek Anbote	P
6.2.3	Openings above parts that are hazardous live	No openings	, bote <sup>N</sup> N
botek	- test pin with length of 100 mm and 4 mm in diameter applied	Anbolek Anbolek	AnboN <sup>K</sup>
6.2.4	Openings for pre-set controls	And stek anbotek	Ň
Anbote	- test pin with length of 100 mm and 3mm in diameter applied	hotek Anbotek Anbotek	Nanth
6.3	Limit values for accessible parts	un votek anbotek anb	
6.3.1	Levels in normal condition	And stek unbotek A	P
Anbotek	a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.	Accessible enclosure voltage less than limit value	Anbotek abotek
Anbore	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	nek Anbotek Anboi	N
he here	Voltages are not HAZARDOUS LIVE the levels of:	nbotes Anbo	10 <sup>14</sup> - P
Sotek I	b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz	Anbotek Anbotek A	hote <sup>k</sup> N Anbote <sup>k</sup>
nbotek	for wet locations measuring circuit A.4 used	ok motek Anboten	N
abotel	c) Levels of capacitive charge or energy less:	ak hotek Anbotek	N
k Aup	1) 45 $\mu$ C for voltages up to 15 kV peak or d.c. or line A of Figure 3	nbotek Anbotek Anbo	ote <sup>k</sup> N A
otek p	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	Anbotek Anbotek A	Anboth
6.3.2	Levels in single fault condition	Anbo' Al. hotek	Pier
Anbo	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	Pando
r Aupo	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	anbotek Anbotek Anbo	N A
New P	Voltages are notHAZARDOUS LIVE the levels of:	anbotek Anbots Ar	wotott.
Anbotek Anbotek	b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz	ek Anbotek Anbotek	Anbolek Anbolek
Pro-	for wet locations measuring circuit A.4 used	poter And tek abot	M N 🔊
Pupp	c) Levels of capacitive charge or energy less:	hotek Anbeit Att	ot <sup>ok</sup> N

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Clause	Dequirement Test	Desute Demonstr	Van Port
Clause	Requirement – Test	Result - Remark	Verdict
Yor	Anboten Anbo P stek Anbote	Ame set spatek	Aupor
Anbo	1) 45 $\mu C$ for voltages up to 15 kV peak or d.c. or line A of Figure 3	Anbora Annotek	Anbotel
	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	on Annotek Anbotek Anbote	NA <sup>nbi</sup>
6.4	Primary means of protection	hotek Anboter And	P
6.4.1	ACCESSIBLE parts prevented from being HAZARDOUS LIVE by one or more of following means:	Annahotek Anbotek	Anbotek
Anbotek	a) ENCLOSURES or PROTECTIVE BARRIERS (see 6.4.2)	otek Anbotek Anbote	P
Anbo	b) BASIC INSULATION(see 6.4.3)	nbotek Anbor An	P
er Anbc	c) Impedance (see 6.4.4)	Anbotek Anbots Atte	NWater
6.4.2	Enclosures and protective barriers	abotek Anbote A	P
Anbotek	- meet rigidity requirements of 8.1	abotek Anbote	Ant N tek
Anbotek	<ul> <li>meet requirements for BASICINSULATION, if protection is provided by insulation</li> </ul>	atek Anbotek Anbotek	AN
	- meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access	obotek Anbotek Anbotek Anbo	ibotek
6.4.3	Basic insulation	Anto tek subotek	AnbolP
Anbotek	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	tek Anbotek Anbotek	P
6.4.4	Impedance	notek Anbotek Anbo	N
k Anbo	Impedance used as primary means of protection meets all of following requirements:	Anbotek Anbotek Anbo	N A
ore. Pr	a) limits current or voltage to level of 6.3.2	Anboten Anbo	N
	b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate	Anbolek Anbo	Anborek
	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7	tootek Anbotek Anbotek	N <sup>ribol</sup>
6.5	Additional means of protection in case of single fault condition	Anbotek Anbotek An	potek
6.5.1	ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of:	Arbotek Anbotek	Anbotek
Anbotek	a) PROTECTIVEBONDING(see 6.5.2)	vek sootek Anboten	Р
, nbot	b) SUPPLEMENTARYINSULATION (see 6.5.3)	bor An botek Anbot	P Pro
tek An	<ul> <li>c) automatic disconnection of the supply (see 6.5.5)</li> </ul>	Anbore Antonek An	po <sup>ten</sup> N

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Clause	Requirement – Test	Result - Remark	Verdict
0 <sup>0</sup>	sotek Anboran Anbo hak sotek	Anbore Ant	anbotek
Anboio	d) current-or voltage-limiting device (see 6.5.6)	ek Anboter Anbu	Note
Anboren	Alternatively one of the single means of protection is used:	otek Anbotek Anbote	N
-V Pro-	e) REINFORCED INSULATION(see 6.5.3)	Anboren And And	o <sup>te<sup>k</sup> N p</sup>
P.C.	f) PROTECTIVE IMPEDANCE (see 6.5.4)	Anboten Anto	Never
6.5.2	Protective bonding	Anbotek Anbo	Not OK
6.5.2.1	ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION:	otek Anbotek Anbotek	Anbotek
Anbore	Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or	Inbotek Anbotek Anb	Her -
potek I	Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL	Anboto Alla	nbo <sup>tek</sup> N
6.5.2.2	Integrity of protective bonding	h anbotek Anboten	Ano
Anbotek	a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses	nbotek Anbotek Anbotek	<sup>h</sup> N Anbo
Anu	b) Soldered connections:	anbotek Anbo	botek
poten I	Independently secured against loosening	Anbotek Anbot P	N
Anbotek	Not used for other purposes	h nbotek Anboth	All N <sub>tek</sub>
Anbotek	c) Screw connections are secured	tek abotek Anbote	N
anbotel	d) Protective bonding not interrupted	tek stotek Anbote	N
k pupi	exempted as removable partcarries MAINS SUPPLY INPUT connection	Anbotek Anbotek Anbo	N N
otek p	e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4	Anbotek Anbotek A	Anboin
Anboten	<ul> <li>f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING)</li> </ul>	bek Anbotek Anbotek	Anbot
	g) If mains supply passes through:	hoten Anbo	ok - Ar
Ano	Means provided for passing protective conductor	Anbotek Anbo hek	oote <sup>k</sup> N
A Nor	Impedance meets 6.5.2.4	Anbotek Anbor Al	notek
nboten	h) Protective conductors bare or insulated, if insulated, green-and-yellow	Anbotek Anbotek	Anborek
Ann	Exceptions:	Jek Anbo tek spotek	Aupot
AUD	1) earthing braids	potek Anborn An	N N pro
Aupo	2) internal protective conductors etc.	anbotek Anbote Ano	ote <sup>™</sup> N
Yek M	Green/yellow not used for other purposes	his stek suboren Ar	N

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Clause	Requirement – Test	Result - Remark	Verdict
ov volt	hotek Anbots Ans	Anbo	Anboten
	TERMINAL suitable for connection of a PROTECTIVE CONDUCTOR, and meets 6.5.2.3	Anboten Anbo	Amotel
6.5.2.3	Protective conductor terminal	ot Ant sotek Anbote	Anb
N N	a) Contact surfaces are metal	Anbore Ant otek Ant	o <sup>tek</sup> P I
r bu.	b) Appliance inlet used	Anboten Anto	A Platek
Anbotek	c) For rewireable cords and permanently connected equipment, protective conductor terminal is close to mains supply terminals	Anbotek Anbotek	AnboPik
Anbor	<ul> <li>d) If no mains supply is required, any protective conductor terminal:</li> </ul>	otek Anbotek Anbotek Anbotek	Anb
ok Aup	Is near terminals of circuit for which protective earthing is necessary	Anbotek Anbotek Anb	N P
otek I	External if other terminals external	nbotek Anbote A	N
Anbotek	e) Equivalent current-carrying capacity to mains supply terminals	Anbotek Anbotek	Anbotel
Anbo	f) If plug-in, makes first and breaks last	otek Anbolt Anto otek	Ninto
k Aupon	<ul> <li>g) If also used for other bonding purposes, protective conductor:</li> </ul>	nbotek Anbotek Am	10 <sup>14</sup> - 1
Yek	Applied first	Anbor An wotek A	N <sup>ooter</sup> N
- a/- i	Secured independently	Anbota Ano Ano	Anto <sup>o</sup> N
upo.	Unlikely to be removed by servicing	Anbore Anton Attek	Notel
Aupor	h) Protective conductor of measuring circuit:	tek Anboles Anbo	N
Anboro	1) Current RATING equivalent to measuring circuit TERMINAL;	abotek Anbotek Anbo	N N
- alt	2) PROTECTIVE BONDING:	Anbolon Ano	toote <sup>k</sup> N
See 1	Not interrupted; or	Anboren Anbo	Node
nbotek	i) Functional earth terminals allow independent connection	Anbolen Anbolek	Anthek
Anbotek	j) If a binding screw used for PROTECTIVE CONDUCTOR TERMINAL:	botek Anbotek Anbotek	P
Aupo	Suitable size for bond wire	botek Anboter Anb	New P
Nek N	Not smaller than 4,0mm (No. 6)	hotek Anbotek Ar	Р
botek	At least 3 turns of screw engaged	Anti-	Anbore P
hotek	Passes tightening torque test	And otek subotek	AntP
Anbotek	k) Contactpressure not capable being reduced by deformation of materials	otek Anbotek Anbotek	N <sup>100</sup>
6.5.2.4 po <sup>boo</sup>	Impedance of protective bonding of plug- connected equipment	Anbotek Anbotek Anbo	N N

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Clause	Requirement – Test	Result - Remark	Verdict
2 <sup>010</sup>	ter upoter pipo, A.	Anboten Anbo	botott
Anbotek Anbotek	Impedance between PROTECTIVE CONDUCTOR TERMINAL and each ACCESSIBLE part where PROTECTIVE BONDING is specified, is:	otek Anbotek Anbotek otek Anbotek Anbotek	Anbotol
at and	less than 0,1 Ohm; or	inbol Ant abotek Ant	N
otek I	less than 0,2 Ohm if equipment is provided with non detachable cord	Anborek Anborek	mbote N
6.5.2.5	Bonding impedance of PERMANENTLY CONNECTED EQUIPMENT	Anbotek Anbotek	Ano N Anbotel
6.5.2.6	Transformer protective bonding screen	ptek Anboie Ant	Nanib
Anbo.	Transformer provided with screen for protective bonding:	nbotek Anbotek Anb	N <sup>ex</sup> N
Anbotek A	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	Anborek
Anbote	screen bonding with soldered connection (see 6.5.2.2 b ) is:	otek Anbotek Anbotek	N
×	- Independently secured against loosening	nbote Ant hotek Anb	N P
-alt	- Not used for other purposes	Anbore Ante stek	n <sup>botek</sup> N
6.5.3	Supplementary insulation and reinforced insulation	Anbotek Anbotek	Antoo P <sup>R</sup>
Anbotek	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	rek Anbotek Anbotek	P
6.5.4 Mag	Protective impedance	botek Anboten Anb	N N
k Anbo	Limits current or voltage to level of 6.3.1 in NORMAL and to level of 6.3.2 in SINGLE FAULT CONDITION	Anbotek Anbotek A	to <sup>otek</sup> N
Anbotek	CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of DOUBLE or REINFORCE DINSULATION of 6.7	Anbotek Anbotek	Amborek
Anbotek	The protective impedance consists of one or more of the following:	botek Anbotek Anbote	N N
Ano Ano	a) appropriate single component suitable for safety and reliability for protection, it is:	Anbotek Anbotek A	ootek N
nbotek	1) RATED twice the maximum WORKING VOLTAGE	Anbotek Anbotek	Anbo <sup>1</sup> N
Anboro	2) resistor RATED for twice the power dissipation for maximum WORKING VOLTAGE	lek Anbolek Anbolek	N
har no	b) combination of components	polen Anbratek nbo	N N P
ek prov	Single electronic device not used asPROTECTIVE IMPEDANCE	Anbotek Anbos All	po <sup>tek</sup> N

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Clause	Requirement – Test	Result - Remark	Verdict
pore.	tek sobotek Anbor Ar sotek	Anboten Anbo	to tot
6.5.5	Automatic disconnection of the supply	K subotek Anbort	Notek
Anborek	a) RATED to disconnect the load within time specified in Figure 2	otek Anbotek Anbotek	N Anbot
ek Ant	b) RATED for the maximum load conditions of the equipment	Anborek Anborek Anb	ot <sup>ek</sup> N M
6.5.6	Current- or voltage-limiting device	Anboten	N
notek	Device complies with all of:	Am otek anbotek	Anbo N
Anbotek	a) RATED to limit the current or voltage to the level of 6.3.2	otek Anbotek Anbotek	N
Anbore	b) RATED for the maximum working voltage; and	Lotek Anbotek Anbo	N
ek Anb	RATED for the maximum operational current if applicable	Anbotek Anbotek Anb	N N
Anbotek Anbotek	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of SUPPLEMENTARY INSULATION of 6.7	Anbotek Anbotek	Anbo <b>N</b> <sup>k</sup> Anbotek
6.6	Connections to external circuits	tek stotek Anbole	Р
6.6.1	Connections do not cause ACCESSIBLE parts of the following to become HAZARDOUS LIVE in NORMAL CONDITION or SINGLE FAULT CONDITION:	Anbotek Anbotek Anbotek A	tootek
Anboro	- the external circuits	Anboten Anbo	Potek
Anbore	- the equipment	tek Anbotek Anbo	P
Anbote	Protection achieved by separation of circuits; or	stek anbotek Anbot	Р
Anbi	short circuit of separation does not cause a HAZARD	Anbotek Anbotek Anbo	P P
oter p	Instructions or markings for each terminal include:	Anborek Anbo	P'
Anboten	a) Rated conditions for terminal	Anbotek Anbot	Patek
Anboten	b) Required rating of external circuit insulation	ek nbotek Anbot	N
6.6.2	Terminals for external circuits	tek abotek Anbote	Pres
K Anbo	TERMINALS which receive a charge from an internal capacitor are not HAZARDOUS LIVE after 10 s of interrupting supply connection	Anbotek Anbotek Anbo	N And
6.6.3	Circuits with terminals which are hazardous live	No such hazardous live terminals	Anbotek
Anboro	These circuits are:	ek Anbotek Anbo	
Anbotek	Not connected to accessible conductive parts; or	otek unbotek Anbort	N
tek Anbo	Connected to accessible conductive parts, but are not mains circuits and have one terminal contact at earth potential	Anbotek Anbotek Anbot	N N

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Clause	Requirement – Test	Result - Remark	Verdict
po <sup>ter</sup>	hnu tek obotek Anboit Ant	Anboten Anbo	horot
Anbotok	No accessible conductive parts are hazardous live	K stolek Anbole	N
6.6.4	Accessible terminals for stranded conductors	All hotek Anbotek	Pupo.
0.0.4	No RISK of accidental contact because:	ote And otek Anbote	N
Ann	Located or shielded	unboten Anbo	N
an An	Self-evident or marked whether or not	Anbotek Anbo. A.	" Aston
	connected to ACCESSIBLE conductive parts	Anbotek Anbor	no" N
Anbotek	ACCESSIBLE TERMINALS will not work loose	4 Anbotek Anbors	N
6.7 monter	Insulation requirements	tek abotek Anbote	Pup.
6.7.1	The nature of insulation	tek obotek Anboie	brie
6.7.1.1	Insulation between ACCESSIBLE parts or	inbol All hotek Anb	10h - b
	between separate circuits consist of CLEARANCES, CREEPAGE DISTANCES and	Anboten Anu otek	nbotek
	solid insulation if provided as protection against a	Anboten Anbo	botek
anboten	HAZARD	abotek Anbore	An
6.7.1.2	Clearances	lak abotek Anboten	Р
Anbote	Required CLEARANCES reflecting factors of 6.7.1.1	abotek Anbotek Anbote	Pinb
otek Anb	Equipment rated for operating altitude greater than 2000 m correction factor of Table 3 of 61010- 1 applied	Anbotek Anbotek Ano	ibotek P
6.7.1.3	Creepage distances	botek Anboten	Pret
Anbotek	Required CLEARANCES reflecting factors of 6.7.1.1	tek Anbotek Anboten	P
Anboi	CTI material group reflected by requirements	botek Anbote And	P
Anb	CTI test performed	botek Anboten Anbo	P
6.7.1.4	Solid insulation	An- hotek Anbotek A	N
unbotek .	Required CLEARANCES reflectingfactors of 6.7.1.1	Anbotek Anbotek	Anbolek
6.7.1.5	Requirements for insulation according to type of circuit	lek Anbotek Anbotek	Anbo
A Anbr	a) In 6.7.2 for mains circuits of overvoltage category II with a nominal supply voltage up to 300V	Anbotek Anbotek Anbo	Dotek N
nbotek	b) In 6.7.3 for secondary circuits separated from the circuits in a) only by means of a transformer	Anbotek Anbotek	Anborek P
Anbotek	c) In K.1 for mains circuits of overvoltage category III or IV or for overvoltage category II over 300V	ek Anbotek Anbotek	N Anbot
Anbo	d) In K.2 for secondary circuits separated from the circuits in c) only by means of a transformer	bottek Anbotek Anbot	e <sup>th</sup> P M
10K N	e) In K.3 for circuits that have one or more of:	Ar spotek An	N

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Clause	Requirement – Test	Result - Remark	Verdict
, 00 Ve	hotek Anboten Ano	Anbore Ant	anborek
Anbors	1) maximum TRANSIENT OVERVOLTAGE is limited to known level below the level of MAINS CIRCUIT	otek Anbotek Anbotek	et Anbote
Anbor	2) maximum TRANSIENT OVERVOLTAGE above the level of MAINS CIRCUIT	Anbotek Anboten And	opte <sup>k</sup> N
otek	3) WORKING VOLTAGE is the sum of more than one circuit or a mixed voltage	Anbotek Anbotek	Anbote N
Anbotek	<ol> <li>WORKING VOLTAGE includes recurring peak voltage, may include non-sinusoidal or non-periodic waveform</li> </ol>	otek Anbotek Anbotek	Ant N Anbote
Anbote	5) WORKING VOLTAGE with a frequency above 30 kHz	unbotek Anbotek Anbo	o <sup>stek</sup> N
6.7.2	Insulation for mains circuits of overvoltage II with a nominal supply voltage up to 300V	Anboten Anbo	Anbote <sup>k</sup> N
6.7.2.1	CLEARANCES and CREEPAGE DISTANCES	Ans wotek Anbotek	Anbo, P
pri. notek	Values for MAINS CIRCUITS of table 4 are met	Ante otek Anbotek	NР
Anbote	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	notek Anbotek Anbot	Panto
5.7.2.2	Solid insulation	notek anbotek Ant	N
5.7.2.2.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	Antotek Antotek hotek Antotek	Anbore N Anborek
Anbotek	Equipment passed voltage tests of 6.8.3 with values of Table 5	nek Anbotek Anbotek	N <sup>M</sup>
Anboi	Complies as applicable:	botek Anboten Ant	N
Anbr	a) ENCLOSUREor PROTECTIVE BARRIER Clause8	Anbotek Anbotek Ant	Anbotek N
nbotek	<ul> <li>b) moulded and potted parts requirements of 6.7.2.2.2</li> </ul>	Anbotok Anbotek	Anbo'N
Anbotek	<ul> <li>c) inner layers of printed wiring boards requirements of 6.7.2.2.3</li> </ul>	Jek Anbotek Anboten	AnN Anbo
Anbo	d) thin-film insulation requirements of 6.7.2.2.4	botek Anbore Ant	N N
6.7.2.2.2	Moulded and potted parts	enbotek Anbote Ans	otek N
	Conductors between same two layers are separated by at least 0,4 mm after moulding is completed	Anbotek Anbotek	Anboten Anbotek
6.7.2.2.3	Inner insulation layers of printed wiring boards	ek abolek Anboles	N
Anbotek	Separated by at least 0,4 mm between same two layers	potek Anbotek Anbote	N
Anbo	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	Anbotek Anbotek And	n <sup>potek</sup> N
		1.10	

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Ciause		Nesul - Nellidik	veruict
hotek	http://www.internet.com/	A" otek sobotek	Pupo.
	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	otek Anbotek Anbotek	Ambote
ak Anboin	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 Anb Anbotek Anbotek Anb	nbotek
6.7.2.2.4	Thin-film insulation	Anto tek storek	N <sup>dn</sup> 4
Anbotek	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES	otek Anborek Anborek	AN <sup>ore</sup>
ek Anbr	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	Anbotek Anbotek Anb	Ne <sup>M</sup> N 1
potek p	a) thickness at least 0,4 mm	And hotek anbotek	N
Anbotek	b) insulation is assembled of min two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	Anbotek Anbotek	Anboin Anbotel
Anbotel	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	nbotek Anbotek Anbotek Anbotek	N <sup>inb</sup>
6.7.3	Insulation for secondeary circuits derived from mains circuits of overvoltage II with a nominal supply voltage up to 300V	Anbotek Anbotek	AnbotN <sup>4</sup>
6.7.3.1	Secondary circuits where separation from MAINS CIRCUITS is achieved by a transformer providing:	riek Anboten Anbo	N
K	- REINFORCED INSULATION	Anboit Ant atek Anbo	N N
Pro-	- DOUBLE INSULATION	Anboten Ano otek	bote <sup>k</sup> N
nbotek	- screen connected to the PROTECTIVE CONDUCTOR TERMINAL	Anbotek Anbotek	AnbotN
6.7.3.2	CLEARANCES	Ann wotek Anbotek	PUP
Anbotek	a) meet the values of Table 6 for BASIC INSULATION and SUPPLEMENTARY INSULATION; or	botek Anbotek Anbotek	Pa <sup>bo</sup>
orek pr	twice the values of Table 6 for REINFORCED INSULATION	Anborek Anborek Ar	pote <sup>te</sup> P
nbotek	<ul> <li>b) pass the voltage tests of 6.8 with values of Table 6; with following adjustments:</li> </ul>	Anbotek Anbotek	Anborek Anbotek
Anbotek	1) values for REINFORCED INSULATION are 1,6 times the values for BASIC INSULATION	etek anborek Anbotek	Panbo
Anbol	2) if operating altitude is greater than 2000 m values of CLEARANCES multiplied with factor of Table 3	Anbotek Anbotek Anbo	P <sup>M</sup>

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6.7.3.3	3) minimum CLEARANCE is 0,2 mm for POLLUTION DEGREE 2 and 0,8 mm for POLLUTION DEGREE 3 CREEPAGE DISTANCES Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY INSULATION	Anberes Ano Anberes Anberes otek Anberes Anberes motek Anberes Anberes botek Anberes Anberes	N P
6.7.3.3	POLLUTION DEGREE 2 and 0,8 mm for POLLUTION DEGREE 3 CREEPAGE DISTANCES Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY	k Anbolek	Anb <sup>c</sup> Anb <sup>c</sup>
otek Anbo	Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY	nbotek Anbotek Anb	Net P
potek po	of Table 7 for BASIC and SUPPLEMENTARY	botek Anboter And	
194	ter to ter	Antotek Anbotek	nbotel N
0.51	Values for REINFORCED INSULATION are twice the values of BASIC INSULATION	Arbotek Anbola	Anbotek
	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	otek Anbotek Anbotek	N <sub>p.nb</sub> r
6.7.3.4	Solid insulation	inbutek anbotek Anbo	N
010 P.	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	Anbotek Anbotek A	Anbotek
Anbotek	a) Equipment passed voltage test of 6.8.3.1 for 5 s with VALUES of Table 6 for BASIC and SUPPLEMENTARY INSULATION	Itek Anbotek Anbotek	A N <sup>ot</sup>
k Aupor	values for REINFORCED INSULATION are 1,6 times the values of BASIC INSULATION	abotek Anbotek Anbo	ote <sup>k</sup> N M
otek pr Anbotek Anbotek	b) if WORKING VOLTAGE exceeds300 V, equipment passed voltage test of 6.8.3.1 for 1 min with a test voltage of 1,5 times working voltage for BASIC or SUPPLEMENTARY INSULATION	Anbotek Anbotek Anbotek Anbotek	Ambolisk Ambolisk
Anbore.	value for REINFORCED INSULATION are twice the WORKING VOLTAGE	ibotek Anbotek Anbo	N N
bro.	Complies as applicable:	Anboren Anbo	bote <sup>K</sup> N
010. by.	1) ENCLOSURE or protective barrier Clause 8	Anbotek Anbo	N
nbotek	2) moulded and potted parts requirements of 6.7.3.4.2	Anbotek Anbo	Anborek
Anbotek	3) inner layers of printed wiring boards requirements of 6.7.3.4.3	botek Anbotek Anbotek	Nabo
Anboro	4) thin-film insulation requirements of 6.7.3.4.4	hotek Anbotek Anbo	N
6.7.3.4.2	Moulded and potted parts	Ann hotek Anbotek An	N
	Conductors between same two layers are separated by applicable distancesof Table 8	Antotek Anbotek	Anbol N
6.7.3.4.3	Inner insulation layers of printed wiring boards	ek Anbolek Anbo	N
	Separated by at least by applicable distances of Table 8 between same two layers	potek Anbotek Anbote	N AN
	REINFORCED INSULATION have adequate electric strength; one of following methods used:	Anbole Anborek An	pot <sup>ek</sup> N

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tok And	EN 61010-1	Ant tek nbotek Anb	0' P
Clause	Requirement – Test	Result - Remark	Verdict
Nor	hotek Anbor An tek nooten	Anboy y protok	Anbolen
	a) thickness at least applicable distance of Table 8	k Anboten Ano	Notek
Anboren	<ul> <li>b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION</li> </ul>	otek Anbolek Anboa	N Anbo
lek Anbr	<ul> <li>c) insulation is assembled of min two separate layers, where the combination is rated for 1,6 times the test voltage of Table 6</li> </ul>	Anbotek Anbotek Ant	nbotek
6.7.3.4.4	Thin-film insulation	A subotek Anboro	Am Notek
Anbotek	Conductors between same two layers are separated by applicable CLEARANCES andCREEPAGE DISTANCES	otek Anbotek Anbotel	<sup>A</sup> N Anbo
rek Anbo	REINFORCED INSULATION have adequate electric strength; one of following methods used:	Anbotek Anbotek Anb	N An
pore A	a) thickness at least applicable distance of Table 8	Anboten Anbo, ak	N
Anbotek Anbotek	<ul> <li>b) insulation is assembled of min two separate layers, each RATEDfor test voltage of Table 6 for BASIC INSULATION</li> </ul>	Anbotek Anbotek Anbotek	Anbotek Anbotek
ek Anboien	<ul> <li>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:</li> </ul>	nbotek Anbotek A	tek N An
	a.c. test of 6.8.3.1; or	Anbo, well wootek	Anbo N
Anbotek	d.c. test of 6.8.3.2 for circuits stressed only by d.c. voltages	Anborek Anbotek	Noter
6.8	Procedure for voltage tests	tek abotek Anbote	Ann
6.9	Constructional requirements for protection against electric shock	Anbotek Anbotek Anbo	P MA
6.9.1	If a failure could cause a HAZARD:	abotek Anbot A	- Not
nbotek	a) Security of wiring connections	botek Anboten	And P.ok
botek	b) Screws securing removable covers	the wotek anbotek	P
butek	c) Accidental loosening	And otek unbotek	Pnbol
ak Anbol	d) CREEPAGE and CLEARANCES not reduced below the values of basic insulation by loosening	botek Anbotek Anbot	en P Ant
6.9.2	Material not to be used for safety relevant insulation:	Anbotek Anbotek An	AnbothN
Anbo	Easily damaged materials not used	Anbore And	N
Anboro	Non-impregnated hydroscopic materials not used	ek Anbolen Anbu	Nipote
6.9.3	Colour coding	notek Antootek Antoo	N
k Anboi	Green-and-yellow insulation shall not be used except:	Anbotek Anbotek Anbo	potek -
0	a) protective earth conductors;	Anbolan Anbo h	ab <sup>ot N</sup>

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Clause	Requirement – Test	Result - Remark	Verdict
10 <sup>1-</sup>	wotek anbotek anbo h totet	Anbote, Ann Alek	anborok
Anboro	b) protective bonding conductors;	tek Anboten Anbo	Note
Anboron	c) potential equilization conductors;	otek anbotek Anbo	N
Anbor	d) functional earth conductors	otek Anbotek Anbot	N
6.10	Connection to mains supply source and connections between parts of equipment	Anbotek Anbotek Anb	A Vetode
6.10.1	Mains supply cords	Anboten Anbo	Notok.
Anboten	Rated for maximum equipment current	tek Anbotek Anbotek	Potek
Anbotek	Cable complies with IEC 60227 or IEC 60245	tek unbotek Anbote	Р
Anbote	Heat-resistant if likely to contact hot parts	tek solotek Anbois	N
the Me	Temperature rating (cord and inlet)	inboy Alt botek Anb	N
potek	Green-and-yellow used only for connection to protective conductor terminals	Anbotek Anbotek P	nbotek Lotek
Anbotek	Detachable cords with IEC 60320 mains connectors:	el Anbotek Anbotek	Anbotek
Pur	Conform to IEC 60799; or	botek Anbo Lek abotek	Nanbo
PULP	Have the current rating of the mains connector	anbotek Anbots All	(e <sup>)4</sup> N <sub>p</sub> (
6.10.2	Fitting of non-detachable mains supply cords	anbotek Anbots And	- Note
6.10.2.1	Cord entry	Anbotek Anbote A	in the second
nbotek	Inlet or bushing smoothly rounded; or	al botek Anboren	And N <sub>rek</sub>
abotek	Insulated cord guard protruding >5D	at botek Anbote	N
6.10.2.2	Cord anchorage:	ot hotek Anbotei	Pupo.
k Aup	Protective earth conductor is the last to take the strain	Anbotek Anbotek Anbo	N N
otek I	a) Cord is not clamped by direct pressure from a screw	Anbotek Anbotek A	N.
Anbo. rek	b) Knots are not used	Anbois An hotek	Nten
Anbo	c) Cannot push the cord into the equipment to cause a hazard	ociek Anbols And	Nabot
A AND	d) No failure of cord insulation in anchorage with metal parts	Anbotek Anbotek Anbo	N An
Plek b	e) Not to be loosened without a tool	nbotek Anbote Ar	N
nbotek	f) Cord replacement does not cause a HAZARD and method of strain relief is clear	Anbotek Anbotek	Anbo Nek
Anos	Push-pull and or torque test	olek Anbors Ans	Nipott
6.10.3	Plugs and connectors	potek Anboien Ano	ha - 40
Anbo	Mains supply plugs, connectors etc., conform with relevant specifications	Anbotek Anborek Anbo	pote <sup>k</sup> N

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Clause	Requirement – Test	Result - Remark	Verdict
No.	notek Anbola And tek nootek	Anbolt Antonek	Anborot
Anbon	If equipment supplied at voltages below 6.3.2.a) or from a sole source:	Anbotek Anbotek	Anbotek
	Plugs of supply cords do not fit mains sockets above rated supply voltage	oto Annotek Anbotek Anbote	NAnbo
ek Aup	MAINS-type plugs used only for connection to MAINS supply	Anbotek Anboten Anb	nbotekN
Anbotek	Plug pins which receive a charge from an internal capacitor	Amborek Amborek	Anbon
abotek	Accessory MAINS socket outlets:	welt whotek Anboten	N
Anbotek	a) Marking if accepts a standardMAINSplug (see 5.1.3e)	nbotek Anbotek Anbote	NANDO Ack Ar
otek Anbr	<ul> <li>b) Input has a protective earth conductor if outlet has EARTH TERMINAL CONTACT</li> </ul>	Anbotek Anbotek And	nbotekN
6.11	Disconnection from supply source	Anbo. A. botek	Anboten
6.11.1	Disconnects all current carrying conductors	Anboi An hotek	Artsoten
6.11.2	Exceptions	tek Anboit Ant	Anbot
6.11.3	Requirements according to type of equipment	abolek Anbole, Anu	ion - No
6.11.3.1	Permanently connected equipment and multi- phase equipment	Anbotek Anbotek An	tootek N
20K	Employs switch or circuit-breaker	Anbolt An hotek	AnboN
Anbo.	If switch or circuit-breaker is not part of the equipment, documentation requires:	Anbotok Anbotok	Antotek
Anbotek	<ul> <li>a) Switch or circuit-breaker must be included in the installation</li> </ul>	ibotek Anbotek Anboten	N <sup>nbe</sup>
k Aupo	b) Suitable location easily reached	Anbotek Anbote And	N Vertex
otek A	c) Marking as disconnecting for the equipment	hotek Anbote A	N
6.11.3.2	Single-phase cord-connected equipment	hotek Anboten	Anb - tok
abotek	Equipment is provided with:	at hotek anbotek	Anbo
ph. botek	a) Switch or circuit-breaker; or	Ano Anbotek	Nabor
r	b) Appliance coupler (disconnectable without tool);	bote Anto stek anbo	ek N Anto
Ann	c) Separable plug (without locking device)	Anbotet Anbot por	po <sup>tek</sup> N
6.11.4	Disconnecting devices	Anboten Anbor At	to toda
nbote	Electrically close to the SUPPLY	Anbotek Anbotek	N
6.11.4.1	Switches and circuit-breakers	ek Anbotek Anbote	N
Anboten	When used as disconnection device:	tek subotek Anboten	N
nibol	Meets IEC 60947-1 and IEC 60947-3	por All botek Anbot	N
ek sa	Marked to indicate function	Anbort Ant Lotek An	N N
N- P0	Not incorporated in MAINS cord	Anboten Ano	s abover N

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Clause	Requirement – Test	Result - Remark	Verdict
ip.	hotek Anboth Anthe tek nbotek	Anbo	Anboton
	Does not interrupt PROTECTIVE EARTH CONDUCTOR	ek Anbotek Anbotek	Anotek
6.11.4.2	Appliance couplers and plugs	nort Ant wotek Anbote	Anbo
lek An	Where an appliance coupler or separable plug is used as the disconnecting device (see 6.11.3.2):	Anbotek Anbotek Anb	otek - A'
botek	Readily identifiable and easily reached by the operator	Anbotek Anbotek	N Anbotek
Anbo,	Single-phase portable equipment cord length not more than 3 m	Anboitek Anboitek	Amotek
Anbote	Protective earth conductor connected first and disconnected last	botek Anbotek Anbote	NAMP

7 tek	Protection against mechanical hazards		Note the test
7.1 orek	Equipment does not cause a mechanical HAZARD in NORMAL nor in SINGLE FAULT CONDITION	Anbotek Anbotek	Anborek
anbo	Conformity is checked by 7.2 to 7.7	hek subotek Anbore	Р
7.2	Sharp edges	nbot Anbrek Anbr	P M
.tek	Easily-touched parts are smooth and rounded	Anbor An hotek A	n <sup>boten</sup> P
20 <sup>1</sup>	Do not cause an injury in normal use and	Anbort Am hotek	AnboiPh
Anbor	Do not cause an injury in single fault condition	Anboro Ann Notek	Botek
7.3	Moving parts	tek Anboten Anti-	nbote
7.3.1	HAZARDS from moving parts limited to a tolerable level with the conditions specified in 7.3.2 and 7.3.5	nbotek Anbotek Anbo	ek N Ant
otek	RISK assessment in accordance with 7.3.3 carried out	Arbotek Anbotek A	AnbotN
7.3.2	Exceptions:	Anbo' An hotek	Antoton
Anbo	Access to HAZARDOUS moving parts permitted under following circumstances:	tek Anbotok Anbotok	N <sub>phbote</sub>
r prot	a) obviously intended to operate on parts or materials outside of the equipment	Anbotek Anbotek Anbo	otek N And
oten	inadvertent touching of moving parts minimized by equipment design (e .g. guards or handles)	Anbotek Anbotek	Anbott
Anbotek	<ul> <li>b) If operator access is unavoidable outside normal use following precautions have been taken:</li> </ul>	ek Anbotek Anbotek	AniNier
r r	1) Access requires TOOL	poter And stek anbo	ek N prob
$b_{U_i}$	2) Statement about training in the instructions	aboten Anbo	dek N

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Clause	Requirement – Test	Result - Remark	Verdict
You Vo	hotek Anboise And sek mbotek	Anbolt All All	Anboret
	<ol> <li>Warning markings on covers prohibiting access by untrained operators</li> </ol>	ek Anbotek Anbotek	Anbotek
100 <sup>t</sup>	or symbol 14 with full details in documentation	hors Ann wotek Anbote	NAnbr
7.3.3	Risk assessment for mechanical HAZARDS to body parts	Anbotek Anbotek Anb	ote <sup>k</sup> N A
potek	RISK is reduced to a tolerable level by protective measures as specified in Table 12	Anbotek Anbotek	N Anbotek
Anbo.	Minimum protective measures:	anbore Ante stek	Note
Anboit	A. Low level measures	ootek Anboten Anv	N
Anbor	B. Moderate measures	hotek Anboten Anbo	N
ok An	C. Stringent measures	kni kotek Anbotek Anb	N
7.3.4	Limitation of force and pressure	Ano otek unbotek	N
Anbotek	Following levels are met in normal and single fault condition:	Anbotek Anbotek	Anboln N abotek
Anbore	Continuous contact pressure below 50 N / cm <sup>2</sup> with force below 150 N	otek Anborek Anbo	N
ok Ant	Temporary force below 250 N for an area at least of 3 cm <sup>2</sup> for a maximum duration of 0,75 s	nbole And Anbotek Anbr	N N
7.3.5	Gap limitations between moving parts	An hotek Anboten A	N
7.3.5.1	Access normally allowed	Am Lotek Anbotek	Anbon
Anbotek Anbote	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	antotek Anbotek Anbotek	P N Anbo
7.3.5.2	Access normally prevented	abotek Anbote Ann	N Mexico
otek	Maximum gap as specified in Table 14 assured in NORMAL and in SINGLE FAULT CONDITION	Anbotek Anbotek A	Anboth
7.4	Stability	Anborn Ann hotek	Antotok
Anbo	Equipment not secured to the building structure is physical stable	rek Anbolak Anbolak	Pantos
e puio	Stability maintained after opening of drawers, etc. by automatic means, or	anbotek Anbotek Anbo	N A
Lotek I	Warning marking requires the application of means	Anbotek Anbotek Ar	Anbot
Anbotek	Compliance checked by following tests as applicable:	Anbotek Anbotek	An <u>bo</u> to.
Anbote	a) 10° tilt test for other than handheld equipment	otek anbotek Anbot	N
Anb	b) multi-directional force test for equipment exceeds height of 1 m and mass of 25 kg	nobotek Anbotek Anbo	N AM

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Clause	Requirement – Test	Result - Remark	Verdict
lan an	anotek Anbot An tek anbotek	Ando. protok	Anbolen
Anbor	<ul> <li>c) downward force test for floor-standing equipment</li> </ul>	ek Anbotek Anbotek	Anbotek
	<ul> <li>d) overload test with 4 times maximum load for castor or support that supports greatest load</li> </ul>	potek Anbotek Anbote	NAnb <sup>c</sup>
ek A	<ul> <li>e) castor or support that supports greatest load removed from equipment</li> </ul>	Anbotek Anbotek An	nboteVN
7.5	Provisions for lifting and carrying	Anbols An Lotek	Anb <sup>c</sup> N <sup>K</sup>
7.5.1	Equipment more than 18 kg:	ek Anbore And	Notek
Anbor	Has means for lifting or carrying; or	optek Anboten Anb	N
Anbo	Directions in documentation	hotek Anbotek Anbo	N
7.5.2	Handles or grips	hotek anbotek Anb	Р
hotek.	Handles or grips withstand four times weight	And otek anbotek	nbo P
7.5.3	Lifting devices and supporting parts	And otek anbotek	Anboin
Ann	Rated for maximum load; or	Anbo tek nbotek	N
Pup	tested with four times maximum static load	phen Anbo tek abote	N <sub>A</sub> nbo'
7.6	Wall mounting	anbolek Anbourde An	tok - M
en br	Mounting brackets withstand four times weight	Anbotek Anbor An	worke <sup>W</sup> N
7.7	Expelled parts	anbotek Amboter A	wotot.
anbotek	Equipment contains or limits the energy	t abotek Anboten	An N <sub>tek</sub>
hotek	Protection not removable without the aid of a tool	his stek habotes	N

8	Resistance to mechanical stresses		le bu
8.1	Equipment does not cause a hazard when subjected to mechanical stresses in normal use	Anbotek Anbotek A	P
nbotek	Normal protection level is 5J	Considered 5J	Ant P.ok
Anbotek	Levels below 5 J but not less than 1 J are acceptable if all the following criteria are met	olek Anbotek Anbotek	Anbo
Aupor	a) lower level be justified by manufacturer	hotek Anbotes And	N
ik Anb	b) cannot easily be touched by unauthorzed persons or the general public	Anbotek Anbotek Anbo	N N
oter	c) only occasional access during NORMAL USE	abotek Anbo, A	N
Anbotek	d) IK code in accordance to IEC 62262 marked or symbol 14 used with full information in the documentation	Anbotek Anbotek	Anborek Anborek
Anbote	For non-metallic ENCLOSURES rated below 2 °C ambient temperature value chosen for minimum rated temperature	and Anbotek Anbotek Anbotek	N <sup>ibor</sup>
stek And	Impact energies between IK values, the IK code marked for nearest lower value	Anboten Anbor Anbor An	pote <sup>k</sup> N

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Clause	Requirement – Test	Result - Remark	Verdict
March	notek Anbolis And tek abolen	Anbo' An otek	Anbotot
Anboro	Conformity is checked by performing following tests:	k Anboten Anbo	Anbotek
Anbo	1) the static test of 8.2.1	otek Anbo'. An	P P Anbo
Anbo	2) impact test of 8.2.2 with 5J except for hand- held equipment	unbotek Anboton Ann	A <sup>Ver</sup>
etek Ar	If impact energy not selected to 5J alternate method of IEC 62262 used	Anboten Anbo	mboteWN
ou botek	3) drop test of 8.3.1 or 8.3.2 except for fixed and equipment with mass over 100kg	Anboi Anboiek	AnboP
Anbotek	Equipment rated with an impact rating of Ik 08 by that clearly meets the criteria	Anti Anbotek Anbotek	N
	After the tests inspection with following results:	anbotek Anbote	bun
ek An	- Hazardous live parts above the limits of 6.3.2 not accessible	enbors Ann	N <sup>en</sup> N M
otek	- insulation pass the voltage tests of 6.8	And stek subotek	N <sup>box</sup> N
Notek	i) no leaks of corrosive and harmful substances	Anbu Lak botek	AnboP
Ano	ii) Enclosure shows no cracks resulting in hazard	Anbois Ans Ans	Poter
Anbois	iii) CLEARANCES not less than their permitted values	otek Anbolen Anto	PAnbol
ek pri	<li>iv) the insulation of internal wiring remains undamaged;</li>	nboten Anto	ret P M
otek	V) Protective barriers necessary for safety have not been damaged or loosened	Anbor Anbotek A	N noter N
Anbotek	vi) No moving parts exposed, except permitted by 7.3	Ant Anbotek	AnboN
Anbotek	vii) no damage which could cause spread of fire	ok spotek Anbote	PР
8.2	Enclosure rigidity tests	an hotek Anboten	Pinbe
8.2.1	Static test	abore Ant hotek Anbo	P M
	- 30N with 12mm rod to each part of enclosure	Anbors And otek	bote <sup>K</sup> P
botek	- in case of doubt test conducted at maximum rated ambient temperature	Anbotek Anbotek	Anbo'N
8.2.2	Impact test	Applied to enclosure with acceptable results	A <sup>n</sup> P
Anbote	Impact applied to any part of enclosure causing a hazard if damaged	botek Anbolek Anbol	ek P An
K	Impact energy level and corresponding IK code:	Anbolen Anbo rek	p <sup>oten</sup> P
abotek	Non-metallic enclosure cooled to minimum rated ambient temperature if below 2°C	Antorek Antorek	AmbotP
8.3	Drop test	And stek habotek	N
8.3.1	Equipment other than HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	on hobo A.	N
k anb	Test conducted with a drop height or angle of:	pt hotek Anbolek Anbol	N
8.3.2	HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	Anbo, An hotek Anbotek An	P

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401 405	porte And Ar hotek LINC	51010-1	
Clause	Requirement – Test	Result - Re	emark Verdic
1000 Jak	notek Anbor An	abotek Anbo	the stek suboren
Anboro	Non-metallic ENCLOSURES cooled to r RATED ambient temperature if below 2	Los Q **	oten Anu Anbotek Anbot
	Drop test conducted with an height of 1	m	And

9	Protection against the spread of fire		nbotek_
9.1	No spread of fire in normal and single fault condition	Anbolek Anbo	Anbolek
Anbotel	Mains supplied equipment meets requirement of 9.6 additionally	otek Anbotek Anbotek	AN <sup>ot</sup>
Anb	Conformity for each source of HAZARD or area of the equipment is checked by one of the following:	nbotek Anboten Anbo	otek P'
- alt	a) Fault test of 4.4; or	Anborto Ann otek	nbote <sup>M</sup> P
borbotek	b) Application of 9.2 (eliminating or reducing the sources of ignition); or	Anbotek Anbotek	AnboNK
Anbotel	c) Application of 9.3 (containment of fire within the equipment)	tek Anbotek Anbotek	P
9.2 M <sup>101</sup>	Eliminating or reducing the sources of ignition within the equipment	nbotek Anbotek Anb	orek - Ant
494	a) 1) Limited-energy circuit (see 9.4); or	Anbor An wotek	N <sup>advoter</sup> N
Anbotek	2) Insulation meets the requirements for BASIC INSULATION; OR	Anbole Anbolek	AnboN
anbotek	Bridging the insulation does not cause ignition	ok botek Anbote	N
Anbo	b) Any ignition HAZARD related to flammable liquids (see 9.5)	No liquids used	N <sup>mbon</sup>
er p	c) No ignition in circuits designed to produce heat	abotek Anbots An	otek N
9.3	Containment of the fire within the equipment, should it occur	Anbotek Anbotek A	Anbotek
Anbotek	a) Energizing of the equipment is controlled by an operator held switch	anborek Anbotek	AnNten
Anbo	b) ENCLOSURE is conform with constructional requirements of 9.3.1; and	botek Anbotek Anbote	P <sup>rit</sup> Anb
AL AL	Requirements of 9.5 are met	anbotek Anbor An	otek N
9.3.1	Constructional requirements	nbotek Anbote A	wotot.
Anbotek Anbotek	a) Connectors and insulating material have flammability classification V-2 or better	Fire enclosure is made of metal and plastic flame rated V-0	Anborek Anborek
Anbo	b) Insulated wires and cables are flame retardant (VW-1 or equivalent)	potek Anbotek Anboten	P Anbr
be	c) ENCLOSURE meets following requirements:	anboten Anbol A	ote <sup>K</sup> P

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Clause	Requirement – Test	Result - Remark	Verdict
100 Mar	hotek Anboten Anbo	Anbore Ann otek	anbotek
Anbort	1) Bottom and sides in arc of 5 ° (see Figure 13) to non-limited circuits (9.4) meets:	Anboton Anbotok	Anbotek
h. soote	i) no openings; or	ot Annotek Anbote	PAnb
er her	ii) perforated as specified in Table 16; or	unborter Anti-	N P
- <i>R</i>	iii) metal screen with a mesh; or	Anbote, And atek	nbote <sup>V</sup> N
20 <sup>2</sup> 0.	iv) baffles as specified in Figure 12	Anboten Anbo	N
Anbote,	2) Material of ENCLOSURE and any baffle or flame barrier is made of:	Fire enclosure is made of plastic flame rated V-0	Potel
An	Metal (except magnesium); or	oten Anto tek anbotel	Np.nbc
and And	Non-metallic materials have flammability classification V-1 or better	nbotek Anbotek Anbo	K <sup>ok</sup> P p
potek I	<ol> <li>ENCLOSURE and any baffle or flame barrier have adequate rigidity</li> </ol>	And Anbotek Anbotek a	nbot P
9.4	Limited-energy circuit	Anbotet Anbo	botek
Anbore	a) Potential not more than 30 r.m.s. and 42.4 V peak, or 60 V dc	rek Anbotek Anbotek	N
N N	b) Current limited by one of following means:	nboles And stek unbo	(ek k)
r bu	1) Inherently or by impedance;	Anboten Anto tek	bo <sup>tek</sup> N
1010. I	2) Over current protective device;	Anbotek Anbo	N
Anbotek	3) A regulating network limits also in SINGLE FAULT CONDITION	Anborek Anbo	Anbotek
Annotel	c) Is separated by at least BASIC INSULATION	and And stek anbotek	Nabo
K Anbr	Fuse or a nonadjustable electromechanical device is used	bolen Anbo	14 <sup>4</sup> 0.
9.5	Requirements for equipment containing or using flammable liquids	No flammable liquids used	N Anbotek
unboitek	Flammable liquids contained in or specified for use with equipment do not cause spread of fire	Anboten Anbotek	AnDrek
M. potek	Risk is reduced to a tolerable level :	k hotek anbotek	-Anbo
A. Aupo	a) The temperature of surface or parts in contact with flammable liquids is 25 °C below fire point	botek Anbotek Anbot	ek N Ar
Nok A	b) The quantity of liquid is limited	No such liquid used	N
abotek	c) Flames are contained within the equipment	An Lotek Anbotek	Anbor N
botek	Detailed instructions for risk-reduction provided	Anno otek Anbotek	N <sup>m</sup> 4
9.6	Overcurrent protection	et Anburgtek anbotek	N <sup>1001</sup>
9.6.1	Mains supplied equipment protected	potek Anbo, Ar	N N po
ek Anbo	Basic insulation between mains parts of opposite polarity provided	Anbotek Anbors Ant	o <sup>tek</sup> N

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Clause	Requirement – Test	Result - Remark	Verdict
Mar	wotek Anboiss And sek mbotek	Anboy All All	Anbotot
	Devices not in the protective conductor	Anboten Anbo	Notek
Anboro	Fuses or single pole circuit-breakers not fitted in neutral (multi-phase)	otek Anbotek Anbo	N Anbo
9.6.2	Permanently connected equipment	unbolie Anti stek ont	ptet N M
r pro	Overcurrent device:	Anboten Anbo	obote <sup>V</sup> N
bore	Fitted within the equipment; or	Anbotek Anbo	N
Anboton	Specified in manufacturer's instructions	Anbotek Anbo	Notek
9.6.3	Other equipment	tek unbotek Anbor	N
abott	Protection within the equipment	tok botek Anbol	N

10	Equipment temperature limits and resistance to	heat	nbote
10.1	Surface temperature limits for protection against burns	Anbolek Anbolek	Anbotek
Anbotek	Easily touched surfaces within the limits in NORMAL and in SINGLE FAULT CONDITION:	(see appended table)	P
Pun	- at an specified ambient temperature of 40 °C	nbolek Anbo, pr	tek N Anb
potek An	- for equipment rated above 40 °C ambient temperature limits not exceeded raised by the difference to 40 °C	Anbotek Anbotek A	thotek P
Anbote	Heated surfaces necessary for functional reasons exceeding specified values:	Anbotek Anbotek	Anbotek
Anbot	Are recognizable as such by appearance or function; or	botek Anbotek Anbotek	N <sup>inborr</sup>
ek an	Are marked with symbol 13	hotek Anboten Anb	N
otek	Guards are not removable without TOOL	Am wotek Anbotek A	N
10.2	Temperatures of windings	Ante stek subotek	Anbor-
Annotek	Limits not exceeded in:	And stek abotek	Auport
Pup	NORMAL CONDITION	len Anber tek spotek	Ruboro
Pup	SINGLE FAULT CONDITION	botek Anbo An	ek P Anbr
10.3	Other temperature measurements	(see appended table)	otek P
DOJ OF	Following measurements conducted if applicable:	anbotek Anbota A	WotoW.
Anbotek	a) Value of 60 °C of field-wiring terminal box not exceeded	Anbotek Anbotek	Anto N enbotek
Anboro	<ul> <li>b) Surface of flammable liquids and parts in contact with this liquids</li> </ul>	ek Antolen Antoe	Anbotek
Anos	c) Surface of non-metallic enclosures	polek Anbo' An	AND ANDO
Ant Ant	d) Parts made of insulating material supporting parts connected to mains supply	Anbolek Anbole Ane	botek N
10.4	Conduct of temperature test	Anboten Anbo	aboteP

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10 Nor	EN 61010-1	An hotek Anboten Ant	20 F
Clause	Requirement – Test	Result - Remark	Verdict
Nek	Anbotek Anbor Ar otek anboter	Anbe	Anboro
10.4.1	Tests conducted under reference test conditions and manufacturer's instructions	Anbote Anu Anu	Anbotek
10.4.2	Temperature measurement of heating equipment	oten Anbo hote	N N Anbo
Anbo	Tests conducted in test corner	abotek Anbolt An	N N
10.4.3	Equipment intended for installation in a cabinet or wall	Anbotek Anboten And	nbotekN
pote.	Equipment built in as specified in installation instructions	Anboten Anbo	Anboly
10.5	Resistance to heat	Anboit Am	Potek
10.5.1	Integrity of CLEARANCE and CREEPAGE DISTANCES	otek Anbotes Ano	PAnbo
10.5.2	Non-metallic ENCLOSURES	inbothe And otek And	P P
v 140	Within 10 min after treatment:	Anbolan Anbo rek	boten P
10.5.3	Insulating material	Anborok Anbor	P
Anbotek	a) Parts supporting parts connected to MAINS supply	Anbolek Anbole	Andotek
101 mol	b) TERMINALS carrying a current more than 0.5 A	oren Ando tek anbotet	Punbo
Prop_	Examination of material data; or	nbotek Anbo, Ar.	P N
ar pri	in case of doubt::	Anbolek Anboy Alv	botek -
o <sup>ter</sup>	1) Ball pressure test; or	Anbotet Anbolic A	P
Anborok	2) Vicat softening testof ISO 306	Anbotek Anbote	Potek
Anbotek	Anbor Anborek Anboret Anbo	tek nbotek Anbote	hav
11 Anbot	Protection against hazards from fluids	tek abotek Anbote.	prob
11.1	Protection to OPERATORS and surrounding area provided by EQUIPMENT	Anbotek Anbotek Anbo	N AN
otet	All fluids specified by manufacturer considered	hotek Anbore A	Ň
11.2	Cleaning	anbolek Anbore	Nyek
11.3	Spillage	ak botek Anboien	N
11.4	Overflow	alk hotek Anborek	N
11.5	Battery electrolyte	bore Ant hotek Anbo	ek Ani
- alt	Battery electrolyte leakage presents no hazard	Anbore And And	o <sup>otet</sup> N
11.6	Specially protected equipment	Anboten Anbo A	N <sup>1001</sup> N
11.7	Fluid pressure and leakage	Anborok Anbo	ab <sup>etek</sup>
11.7.1	Maximum pressure	ek Anbotek Anbot	-toote
Anbore	Maximum pressure of any part does not exceed <i>P</i> <sub>RATED</sub>	potek Anbolek Anbol	N N
11.7.2	Leakage and rupture at high pressure	Anboron Anbo A	o <sup>tek</sup> N

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Clause	Requirement – Test	Result - Remark	Verdict
you wat	notek Anbols And sek nbotek	Anbor Annotek	anbotot
Anbore	Fluid containing parts subjected to hydraulic test if:	Anboten Anor	Anbote
	a) product of pressure and volume > 200 kPal; and	old Ann Anbotek Anbote	NARD
ok An	b) pressure > 50 kPa	botek Anboten Ant	N
anbotek	Parts of refrigerating systems meets pressure- related requirements of IEC 60335-24 or IEC 60335-24	Anbotek Anbotek	Anbotek
11.7.3	Leakage from low-pressure parts	tek stotek Anbote	N
11.7.4	Overpressure safety device	of Anbotek Anbote	And
- M	Does not operate in NORMAL USE	inboli An otek Anb	N P
potek pr	a) Connected as close as possible to parts intended to be protected	Anbolak Anbolak	nbo <sup>tek</sup> N
Anbotek	b) Easy access for inspection, maintenance and repair	Anbotek Anbotek	Anb N Anbotel
Anbo	c) Adjustment only with TOOL	tek Anbore Ano	Ninbo
Pupor.	d) No discharge towards person	botek Anbore And	N N
K Ant	e) No HAZARD from deposit of discharged material	hotek Anbotes Ano	N
otek	f) Adequate discharge capacity	Ant botek Anbotek A	N
Anbotek	No shut-off valve between overpressure safety device and protected parts	Anbotek Anbotek	Anbole

12 Antonio	Protection against radiation, including laser sou ultrasonic pressure	irces, and against sonic and	le <sup>k</sup>		Ant
12.1	Equipment provides protection	Anboten Ano	botel	N	
12.2	Equipment producing ionizing radiation	Anboten Anbo		Ν	
12.2.1	Ionizing radiation	Anbotek Anbot		Ν	ek.
12.2.1.1	Equipment meets the following requirements:	lek Anbotek Anbot	P	Ν	note
Anbote	a) if intended to emit radiation meets requirements of 12.2.1.2; or	botek Anbotek Anbote	6K	Ν	Anb
otek Anu	tested, classified and marked in accordance to IEC 60405	Anbotek Anbotek A	potek	N	1
Anbotek	b) if only emits stray radiation meets requirements of 12.2.1.3	Anto Anbotek Anbotek	Anbo	N	e¥-
12.2.1.2	Equipment intended to emit radiation	ek Anbotek Anbo	87	Ν	otel
Anbore	Effective dose rate of radiation measured	otek Anbotek Anbo	36	Ν	30
K Anbr	If dose rate exceeds 5 µSv/h marked with the following:	Anbotek Anbotek Anbo	potek	Ν	bun
oro p	a) Symbol 17 (ISO 361)	Anbotek Anbo	100	Ν	

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Clause	Requirement – Test	Result - Remark	Verdict
100°	notek Anboten Anbo	Anbore Ans	anborek
Anbort	b) Abbreviations of the radionuclides	k Anboten Anb	Note
Anboren	c) With maximum dose at 1 m;or	otek Anbotek Anbo	N
Anboth	with dose rate value between 1 µSv/h and 5 µSv/h in m	Anbotek Anbotek Anbo	N N
12.2.1.3	Equipment not intended to emit radiation	Anboten Anbo	abo <sup>teV</sup> N
obotek	Limit for unintended stray radiation of 1 µSv/h at any easily reached point kept	Anbotek Anbotek	AnboNK
12.2.2	Accelerated electrons	Ant otek Anbotek	N
Ann	Compartments opened only by the use of aTOOL	pter Anto tek abote	Npabo
12.3	Ultra-violet (UV) radiation	Conformity test under consideration	tek A
potek	No unintentional and HAZARDOUS escape of UV radiation:	Antonek Anbolek A	N Nabotek
Anbors	- checked by inspection; and	Anboten Ano	Notek
Anboro	- evaluation of RISK assessment documentation	otek Anboten Anbo	N
12.4 March 12.4	Microwave radiation	sotek Anbotek Anbo	
Anb Anb	Power density does not exceed 10 W/m <sup>2</sup> :	ntek anbotek Anbr	N
12.5	Sonic and ultrasonic pressure	And tek anbotek A	10010
12.5.1	Sound level	Andon tek abotek	AntonN
Aup	No HAZARDOUS sound emission	Anbon ok stotek	PLON NOTON
Anbote	Maximum sound pressure level measured and calculated for maximum sound power level as specified in ISO 3746 or ISO 9614-1	tek Anborek Anborek Anborek	N <sub>in</sub> bol
Aup	Instruction describes measures for protection	Anboten Anbolt An	wote <sup>k</sup> N
12.5.2	Ultrasonic pressure	Anbotek Anbote A	N
Anbotek Anbotek	Equipment not intended to emit ultrasound does not exceed limit of 110 dB between 20 kHz and 100 kHz	ek Anbotek Anbotek	Nrek
Anbore	Equipment intended to emit ultrasound:	otek Anbotek Anbo	N
A Anbe	Outside useful beam does not exceed limit of 110 dB between 20 kHz and 100 kHz	Anbotek Anbotek Anbo	N <sup>At</sup>
Prov P	If inside useful beam above values exceeded:	Anbotek Anbo, At	N
inbole.	Marked with Symbol 14 of Table 1	Anbotek Anbo	Niek
Anboten	and following information in the documentation:	ek Anbotek Anbot	N
anbotek	a) dimensions of useful beam	rek abotek Anbore	N
nibo	b) area where ultrasonic pressure exceed 110 dB	oo An hotek Anbot	N Pull
10K	c) maximum sound pressure inside beam area	Anbolt Anthe Lotek An	po <sup>ter</sup> N
12.6	Laser sources	Anbola Anos	N

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101			noten l				
Clause	Requireme	nt – Test	Annabotek	Anbotek	Result - Remark	abotek	Verdict
Anon	notek	Anbo	Ann	aboten	Anbo	Notek	anboren

	Equipment me	ets requirement	ts of IEC 60	825-1	N- P		Anne	Notek
~010°	DIAN	194	, 'oo'	b.		101	1000	P 1

13 Anbo	Protection against liberated gases, explosion a	nd implosion	
13.1	Poisonous and injurious gases and substances	No injurious gases	N
potek	No poisonous or injurious gases or substances liberated in NORMAL CONDITION	Anbotek Anbotek	nb <sup>ot</sup> N anbotek
Anboto	Attached data/test reports demonstrate conformity	Anbores Anbo	Note
13.2	Explosion and implosion	otek Anboten Anbo	
13.2.1	Components	Lotek Anbotek Anbo	- No.
K Ant	Components liable to explode:	ind stek anbotek Anb	1
otek	Pressure release device provided; or	And tek anbotek	N <sup>nod</sup>
Anbotek	Apparatus incorporates OPERATOR protection (see also 7.7)	Anbotek Anbotek	Anbolo
Anboto	Pressure release device:	tek anbotek Anbor	
Anbote	Discharge without danger	otek unbotek Anbote	N
K ant	Cannot be obstructed	nbotek anbotek Anbo	N
3.2.2	Batteries and battery charging	Anbo tek abotek A	100100
Note N	If explosion or fire hazard could occur:	Anbor Ak sotek	Anbote
how	Protection incorporated in the equipment; or	Anborn An hotek	Noter
Anbo	Instructions specify batteries with built-in protection	tek Anbolek Anbolek	Nator
·	In case of wrong type of battery used:	hotek Anbo	10 P
405	No HAZARD; or	Anbor An botek A	bote. N
No.	Warning by marking and within instructions	Anborn An hotek	Anboth
Anbotek	Equipment with means to charge rechargeable batteries:	Anbola And	Antotok
Anbotel	Warning against the charging of non-rechargeable batteries; and	botek Anbotek Anboter	N <sup>ne</sup>
Ano	Type of rechargeable battery indicated; or	anbotek Anbota An	otek N
lok b	Symbol 14 used	anbotek Anbote Ar	N
potek	Battery compartment design	abotek Anboten	And Nek
nbotek	Single component failure	ak botek Anbotek	P <sup>ubbo</sup> N
abotel	Polarity reversal test	An wotek anbotek	N
3.2.3	Implosion of cathode ray tubes	No such device used	on - by
ek bur	If maximum face dimensions > 160 mm:	Ambolies Ambolies	potek
b. b	Intrinsically protected and correctly mounted; or	unbotek Anbo, A	Ň

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Clause	Requirement – Test	Result - Remark	botek	Verdict
No.	hotek Anbote And to totek	Aupor	Notek	Anbotoh
Anboro	ENCLOSURE provides protection:	tek Anboten	Ano	Notek
Anbore	If non-intrinsically protected:	Lotek Anboten	Aupo	
Anbot	Screen not removable without TOOL	hotek Anbotek	Aupo.	N
10 40	If glass screen, not in contact with surface of tube	have yes	lek Aupo	N

14	Components and subassemblies		Anbole
14.1	Where safety is involved, components meet relevant requirements	Anborek Anborek	P
14.2	Motors	stek sabotek Anbots	bun
14.2.1	Motor temperatures	Anbo tek abotek Anb	Vien Vui
botek	Does not present a HAZARD when stopped or prevented form starting; or	Anbolek Anbolek	nbote N
Anboten	Protected by overtemperature or thermal protection device conform with 14.3	Anbotek Anbor	Anbotek Anbotek
14.2.2	Series excitation motors	oten Anbo tek storel	Anbore
ek Ant	Connected direct to device, if overspeeding causes a HAZARD	nbotek Anbotek Anb	rek N Anb
14.3	Overtemperature protection devices	And tek anbotek A	N <sup>bon</sup> N
Notek	Devices operating in a SINGLE FAULT CONDITION	Anbo tek abotek	A <sup>nbolo</sup> N
Ann	a) Reliable function is ensured	Anbon ok botek	Noter
Anbore	b) RATED to interrupt maximum current and voltage	tek Anbotek Anbotek	Nabote
dna Ne	c) Does not operate in NORMAL USE	hot tek abotek Anbo	N
potek I	If self-resetting device used to prevent aHAZARD, protected part requires intervention before restarting	Anbotek Anbotek A	Anbotek
14.4	Fuse holders	Anbo tek abotek	N <sup>N</sup>
Anos	No access to HAZARDOUS LIVE parts	lek Anbor Lek abotek	Naboro
14.5	Mains voltage selecting devices	botek Anboursk ho	K N Anbr
AUD.	Accidental change not possible	Anbotek Anbor An	otek N
14.6	Mains transformers tested outside equipment	anbolek Anbole An	N
14.7	Printed wiring boards	botek Anboten	And Nev
Anbotek	Data shows conformity with V-1 of IEC 60695-11- 10 or better; or	lek Anbotek Anbotek	Anbotek Anbotek
Anbc Anbc	Test shows conformity with V-1 of IEC 60695-11- 10 or better	potek Anbor An	ok N <sub>Pu</sub> po
otok p	Not applicable for printed wiring boards with limited-energy circuits (9.4)	Anbotek Anbotek An	notek

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Clause	Requirement – Test	Result - Remark	Verdict
200 101	hotek Anbolis And tek noolek	Anboi	Anboret
14.8	Circuits or components used as TRANSIENT OVERVOLTAGE limiting devices	Anbotan Ann	Note
Anbo	Test conducted between each pair of MAINS SUPPLY TERMINALS	oto Ann Anbotek Anbote	Nanb
rek bi	No HAZARD resulting from rupture or overheating of the component:	Anbolek Anbolen Anb	nbotekN
No.	- no bridging of safety relevant insulation	Anboit Ant Lotek	anb N
Anbon	- no heat to other parts above the self-ignition points	Anborek Anborek	Note

15	Protection by interlocks	Anbois An	ten Ant
15.1	Interlocks are designed to remove a hazard before OPERATOR exposed	Anborok Anborok A	nbo <sup>tek</sup> N
15.2	Prevention of reactivating	hotek Anbotek	And N tek
15.3	Reliability	An wotek ambotek	Anbo
h. bote	Single fault unlikely to occur; or	Anto Antonek Anbotek	Nanbor
been and	Cannot cause a HAZARD	nbole And tek abo	rek N Anb

16	HAZARDS resulting from application		P	
16.1	REASONABLY FORESEEABLE MISUSE	Anbotek Anbo	N	Net
Anboter	No hazards arising from setting not intended and not described in the instructions	tek Anbotek Anbot	N	nbote
AND AND	Other cases of reasonable foreseeable misues addressed by risk assessment	hoten Anbo	e <sup>sk</sup> N	Anb
16.2	Ergonomic aspects	And tek unbotek A	100' P	
Anbotek	Factors giving rise to a HAZARD the RISK assessment is reflecting those aspects:	Antoniotek Anbotek	AnbolP	Nor
hotok	a) Limitation of body dimensions	ak notek Anboten	PnA	20
100	b) Displays and indicators	k sotek Anbotek	P	100
M-	c) Accessibility and conventions of controls	boten Anno otek anbo	P P	Anb
P.	d) Arrangements of TERMINALS	Anboren Anbo	note <sup>W</sup> P	1

17	Risk assessment		botek
Anboton	Rish assessment conducted, if hazard might arise and not covered by claused 6 to 16	Fully covered by clauses 6 to 16	N Anbotek
Ant Ant	Tolerable rish achieved by iterative documented process covering the following:	potek Anborek Anbo	ak N Anbo
Nek.	a) RISK analysis	And stek Anbotek Ar	N
Note N	identify HAZARDS and estimate RISKS	And tek solek	Anbor N

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Clause	Requirement – Test	Result - Remark	Verdict
Mar	motek Anbola And tek mbotek	Anbolt Astronotek	Anboret
Anbois	b) RISK evaluation	k Anboten Anbo	Note
	plan to judge acceptability of resulting risk level based on the estimated severity and likelihood of a rish	otek Anbotek Anbotek Anbote	N Anb
h bi	c) Rish reduction	hotek Anboten And	N
otek	Initial risk reduced by counter measures:	Ann wotek Anbotek	N.
Anbotek	Repeated risk evalution without new risks introduced	Antotek Anbotek	Anbon N
Anbors	Risks remaining after risk assessment addressed in instruction to responsible body:	otek Anboten Anu	N
	Information contained how to mitigate these rishs	inbort Ann Lotek Anb	N P
otek	Following principles in methods of risk reduction applied by manufactuer in giver order:	Anbotek Anbotek	nbote <sup>K</sup> N
Astory .	1) RISKS eliminated or reduced as far as possible	An wotek Anboten	Anb N
Anbotek	2) Protective measures taken for risks that cannot be eliminated	nek Anbotek Anbotek	N
Anbo	3) User information about residual risk due to any defect of the protective measure	nbotek Anbotek Anb	Colt N
- alt	Indication of particular training is required	Anboit Antoniek	ibote <sup>K</sup> N
nbotek	Specification of the need for personal protective equipment	Anbotek Anbotek	AnbolN
Anbotek	Conformity checked by evaluation of the risk assessment documentation	tek Anbotek Anbotek	Ň

ANNEX F	ROUTINE TESTS	Anboro	hotek	Anbotek	Anbo tek-
potek p	Manufacturer's declaration	Anbor	Annatok	anbotek	N

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4.4.2	Table: Summary of single fault condtions			stek Anbote P 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	х	oote <sup>k</sup>	Anboten Anbotek
4.4.2.2	Protective impedance	х	Anboro	And unter Anbo
4.4.2.3	Protective conductor	Hotok	Х	Ann
4.4.2.4	Equipment or parts for short-term or intermittent operation	AT X 10K	Anbo	ker Anborek
4.4.2.5	Motors	X	P	- anbotek
4.4.2.6	Capacitors	. pr	X	Anto otek - Anbotek
4.4.2.7	Mains transformers	10H	X	And stok
4.4.2.8	Outputs	X	Anboten	Short-circuit were applied to all outputs. No hazard.
4.4.2.9	Equipment for more than one supply	<sup>fodd</sup>	× x 📈	bore And otek
4.4.2.10	Cooling	Х	otek	Anboten Anbo
4.4.2.11	Heating devices	Х	Lotek	Anboten Anbo
4.4.2.12	Insulation between circuits and parts	Х	Ann	hotek Anbo

5.1.3 c)	TABLE: M	AINS supply				N
hotek	Marked rat	ting (V)	Minotek M	Nou in	abotek - Anb	oter
anbotek	Number of	phases	Line Contraction	Anbo	-botek P	Inboten
npotek	Frequency	<sup>,</sup> (Hz)	Anatok	Anbor	A	Anbotes
10°	Current (m	A)	in the second second	hupote	An- wotek	Anbo
p."	Power (W)	soboten Anbo		ek : Anbore	Anu	
er p	Power (VA	.)	20°	hotek : Anbr	oter _ Anu	rek.
Test No	Voltage (V)	Frequency (Hz)	Current (A)	Power in (W)	Power in (VA)	Comments
000	-	10010	Anu -	10%	nbo' - P	

5.3	TABLE: Durability of markings	Pores P	1
	Marking method (see note)	Agent	
1) Adhe	esive label	A Water	Ke.
2) Ink pr	rinted https://www.andle.com	B Isopropyl alcohol 70%	upote.
3) Laser	r marked	C (specify agent)	Anbr
4) Filmc	coated (plastic foil control panel)	D (specify agent)	P
5) Imprir	nt on plastic (moulded in)	E (specify agent)	

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surface to which marking is fixed.

		Mark	ng location		P	Marking method (s	ee above)
otek	- Iden	tification (5.1.2)		Anboten.	1 Anbi	tek abote	K Anbote
Ano	- Mair	ns supply (5.1.3).	A State		1	nbo yet ab	otek Anboter
Anbo	- Fuse	es (5.1.4)	Any Pure		otek	Aupo, Ai	botek Anbo
Anbo Anbo	1 (P) 1		ns and operating de		1 botek	Anbois	Anbotek Ar
stek p	- Swit	ches and circuit-l	oreakers (5.1.6)	nboten	Anbo	ek abotek	Anboro
dek	- Dou	ble/reinforced eq	uipment (5.1.7)	Anboten.	Anbo	tek spote	Anbore.
tek.	- Field	d-wiring TERMIN	AL boxes (5.1.8)		n Pi	too. A	otek Anboter
Anbo	- War	ning markings (5	2)		1° <sup>K</sup>	Anbo, An	hotek Anbo
Method	ł	Test agent	Remains legible Verdict	Label Ver		Curled edges Verdict	Comments
1	Notek	A, B	Anboi P	Notek F	Anboter	Р	P
Note(s):	Nou	k notek	Anbore A		100	low Puppor	A stek

	107	~ 00 ×		. M.		20	×	1au	, 'oo'
ТА	BLE: Prote	ection aga	ainst elect	ric shock					N
Blo	ock diagram	of the sy	stem	Autoren	Ano	10×	Anbotek	Aupor	
Po	ollution degre	ee		Aupoten	.An	3	abote	K Anbr	
Ov	vervoltage in	nstallation	category	(odia)		HII .	de M	otok p	
or	Insulation type	•		epage dist	ance (no	ote 3)	Clearan ce (note	Test voltage	Comments
n	(note 1)	•		СТІ	Other	CTI	3) mm	(note 2)	
	Anbor	Pur	ole	nbotek	Anbo	101	h. abotek	Anbote.	Anb
INS LE I ECT rcec	SULATION NSULATIO IVE IMPED I INSULATI	N DANCE ON		lse test vo	oltage (p	ulse)	CATEGORI CATEGORI DEGREES should be s	ES (OVER ES) or POI which diffe hown unde	VOLTAGE LUTION r from these
	Pro ON ON Type INS LE I ECT rrcco	Block diagram Pollution degr Overvoltage in type (note 1)  Type of insulation INSULATION LE INSULATION ECTIVE IMPED rced INSULATI	Block diagram of the system Pollution degree Overvoltage installation Overvoltage installation Insulation type (note 1) Max. working voltage (note 2) 	Block diagram of the system Pollution degree Overvoltage installation category or Insulation type (note 1) Max. working voltage (note 2) PWB   Type of insulation: INSULATION ECTIVE IMPEDANCE rced INSULATION	Block diagram of the system         Pollution degree         Overvoltage installation category         or       Insulation type (note 1)         Insulation type (note 1)       Max. working voltage (note 2)         PWB       CTI             Type of insulation:       NOTE 2 – Types of the system of the	Overvoltage installation category       Creepage distance (not not specific treepage distance)         Insulation type (note 1)       Max. working voltage (note 2)       PWB       CTI       Other         Insulation type (note 1)       Insulation (note 2)       PWB       CTI       Other         Insulation type (note 1)       Insulation:       NOTE 2 – Types of voltage Peak impulse test voltage (press of the test voltage (press of the test voltage (press of test voltage (press o	Block diagram of the system       :          Pollution degree       :       3         Overvoltage installation category       :       III         or       Insulation type (note 1)       Max. working voltage (note 2)       Creepage distance (note 3)         PWB       CTI       Other       CTI               'ype of insulation:       NOTE 2 – Types of voltage       Peak impulse test voltage (pulse)         INSULATION       Peak impulse test voltage (pulse)       r.m.s.         CTIVE IMPEDANCE       d.c.       peak	Block diagram of the system          Pollution degree          Pollution degree       3         Overvoltage installation category       III         or       Insulation type (note 1)         Insulation       Max. working voltage (note 2)         PWB       CTI         Other       CTI         or          Insulation       Max. working voltage (note 2)         PWB       CTI         Other       CTI         mm	Block diagram of the system          Pollution degree       3         Overvoltage installation category       111         or       Insulation type (note 1)         Insulation       Max. working voltage (note 2)       Creepage distance (note 3)       Clearan ce (note 3)         Insulation       Max. working voltage (note 2)       PWB       CTI       Other       CTI         Insulation       Max. working voltage (note 2)       PWB       CTI       Other       CTI       Test voltage (note 3)         Insulation       Mote 2)       PWB       CTI       Other       CTI       mm         Insulation       NOTE 2 – Types of voltage       NOTE 3 – INSTALLAT       CATEGORIES (OVER CATEGORIES) or POI DEGREES which differences or POI DEGREES which differences of the should be shown under the should be shown

vote(s): Power supply an approved adapter

6.2	TABLE: Dete	rmination of accessible	parts	e <sup>sk</sup> P ant
	Item	Description	Determination method	Exception under 6.2.1
inbotek	photek h	Examination	The jointed test finger (see figure B.2) is applied in every possible position	Anborek P Anborek
Note(s):	Price	abotek Anbor	k notek hobotek	Anton ok notek

0	6.5.2.4	TABLE: Impedance	ce of protective bondi	ng of plug-connected equ	ipment	N	0
0	ACCESSIB	LE part under test	Test current (A)	Voltage attained after 1 min (V)	Res	ult	

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Note(s):

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pro-	hotek Anbo	p	spoten And	Note	anbore
6.5.2.5	TABLE: Impedance equipment	ce of protective bondi	ng of permanently connec	ted	Anbotek
ACCESSIE	BLE part under test	Voltage attained (s)	Time for voltage to drop below allowable levels(s)	Res	ult
ek anbo	tekAnbo	A. Anbr	ter And tek	potek pr <u>br</u>	r pro-
Note(s):	hbotek Anbor	ak hotek A	nboten Anbo hek	abotek p	nbote.

-

6.7		: Insulation	roqui	romonto			Notek
0.7	54.7						N
8 100	Resista	ance to mec	hanica	l stresses			Nanbot
10.5.1	Integrit	y of CLEARAI	NCES a	and CREEPAGE DIS	TANCES	Anbore A	N N
	Location			al CREEPAGE STANCE (mm)	Initial CLEARANCE (mm)	Maximum working voltage (V)	Comments
hotek	Antoten	Anbo	400	abotek I	inbote - Any	otek - nbotek	An <u>bor</u>
Note(s):	anbot	ek Aup		botek	Anboten Ar	bek abo	ek Anbois
Mechanic force	,	Static		Dynamic	Drop test, normal	Drop test, hand- held	Comments
N	otek	Anbote.	Ano	tek - nbotel	Pupor	All wolek	Anboten Anb
Note(s):	Lotek	Anbotek	P2	100 × 101	btek Anboten	Ann	abotek.

6.8	TABLE:	Dielectric strength	tests for protection	against the sprea	ad of fire	Brek
Locatio	n	Working voltage (V)	Test voltage (V)	Result	Comme	ents
Input to acce part	essible	nboten _ Anbo	1000V	Anbolt P Ant	potek AnPt	otek Ant

Note(s): No breakdown or repeated flashover shall occur

6.10.2	TABLE: Cord	l anchora	ge tests				An	N
Loc	cation	Mass kg	Pull N	Verdict	Torque Nm	Verdict	Comme	ents
A shot	at Anboter	Ant	No.	abotek	Anbore	Anu	Anbotek	Anbo
Note(s): No	cord provided	ier l	npo.	P	k soboter	Ano	-otek	D.

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8	TABLE	: Resistance	to mechanica	offer P An			
Llocatio	n	Static Dyna		Drop test, normal	Drop test, hand-held	Result	Comments
Enclosur	Enclosure		Pass	Anbu	lek - obot	Pass	Anti-
Note(s): 1). 3	0N app	lied by the he	mispherical en	d of a hard rod	of 12 mm dian	neter	Anbo Anbo

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/m<sup>3</sup>.

9	TABLE: Protection ag	ainst the spread of fire			Р
Item		or area of the equipment , component, liquid etc.)	Protection method (9a, 9b, 9c)	Protection details	Comments
Plastic parts	Anboit	horek Anboten	9a	botek - Anb	Me. Anu
Note(s):	Anborn Ar	hotek Anbotek	Aupo, Pek	abotek p	inboten An

inted wiring boards aterial tested	1 - 2 - 3 -	
eneric name	no de too	
aterial manufacturer: pe designation	no de too	
pe designation	no de too	
olour	no de too	
onditioning details:	no de too	
iickness (mm):	no de too	
Anbotek Anbotek Anbotek Anbotek A	no de too	
ration of flaming after first application (s)	3 -	
ration of flaming after first application (s)	P.C.	
	1 - 2 - 1000 3 - 1000	
plication (s)	1 - 2 - 3 -	
becimen burns to holding clamp (Yes/No)::	1 - 2 - 3 -	
otton ignited (Yes/No):	1 - 2 - 3 -	
	ecimen burns to holding clamp (Yes/No):	blication (s)       2 -         3 -       3 -         ecimen burns to holding clamp (Yes/No)       1 -         2 -       3 -         3 -       2 -         3 -       2 -         3 -       2 -         3 -       2 -         3 -       2 -         3 -       2 -         3 -       2 -         3 -       2 -         3 -       2 -         3 -       2 -

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9.4	TABLE: Limited-energy circuit							
abotek atek	cu	rrent (A); 4 – n		(VA); 4 – overlo	r.m.s./dc.(V); 3 – ad protection after ments		Anbotek	
1		2	3	4	5	6	7	
Ano-		Asto	Anbore I	10- 10- 10- 10- 10- 10- 10- 10- 10- 10-	hotek - Anb	5 <u> </u>	Hode - Hay	
Note(s):								

9.5	5 TABLE: Requirements for equipment containing or using flammable liquids								
Anbotek		Test details: 1 –Type of liquid; 2 –flammable liquids (b. quantity); 3 – flammable liquids (containment); 4 – comments							
	1	2		3		4			
~	ton unbo		k subote.	Ann	Lotek A	nbor-	bu.		

hable liquid used in normal working or single fault condition.

10	TABLE: 1	Temperature n	neasurements					AnbotP	
10.1	Surface to	emperature lim	its – NORMAL CONI	DITION and	/ or sig	NLE FAULT C	ONDITION	Ar Poten	
10.2	Temperat	ture of winding	S- NORMAL CONDIT	ION and /		FAULT CON	DITION	Nnbote	
10.3	59.7 130 P								
Operating	conditions:	Normal workir	ng o <sup>le</sup>	- ek	botek	Anbote	Ano		
Jotek	Frequenc	y (Hz)	Ani Ani			ek Ant	oter P		
abotek	Duration	(h, min)	Magtek	Anbor	1	hour 50	) min		
abotek	10.				- P2	hotek	Anbotek		
hote		12 N			24.5°C	Annetek	anbotek		
	maximum							Pres.	
otok	(℃); 5 – r			.); 4 – ma:	kimum a	llowed temp	erature	hotek	
otek	(°C); 5 – r 1	esult; 6 – comr	nents	Jote.	Ann	dr 40		6	
IC	(°C); 5 – r 1	esult; 6 – comr	nents 3		Anu	dr 40		6 10010	
IC Internal wi	1 Anbotek	esult; 6 – comr	nents 3	13	4 80	dr 40		6 	
Aupola	1 Anbotek	esult; 6 – comr	3           59.7	13	4 30 05	dr 40		6 >	
Internal wi	1 Anbotek	esult; 6 – comr	3           59.7           45.5	13	1 30 95 30	5 P P		6 	
Internal wi	1 ire	esult; 6 – comr	3       59.7       45.5       56.2	2 13 10 10	4 30 95 30 20	5 P P		6 	

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10.2	TABLE: Temp	perature of re	sistance me	thod temp	erature meas	urements	N N N
4.4.2.7	MAINS Transfo	ormers	104	abotek	Anboro	Ann	anbote <sup>K</sup> N
14.2.1	Motor tempera	atures	Aupo, Pak	,botek	Anboten	Anbo	N
Operating	conditions:	Anbotek	Anbor	hubotel	K Anbotet	And	
Anboren	Frequency (Hz	z)	Anbol		tek Anbr	Her Aubo	. A
Anbo	Duration (h, m	in)	Anboly		hour	min	
or No	Voltage (V)		stek ant		N	Anbotek A	upi
otek	Ambient temp	erature Ta₁ /Ta	a₂(°C)	Anbote	Anne	°C(initial/final)	Þ
Anbotek	Measurements 6 –T <sub>max</sub> (°C); 7			R <sub>cold</sub> Ω; 3 –	R <sub>warm</sub> Ω; 4 – 1	r (K); 5 – T₀ (°C)	; Anboi-
1	2	3	4	5	6	7	8
hapo,	Pin-		Anbo.		water - M	hoter Ant	- Mar
(Tc= Tr - Note(s): 2	I – Rcold = initial { Ta2 – Ta1} + [4 2 – Indicate insula 3 – Record values	0 °C or max ration class (IE0	ated ambien C 85) under (	t]); Tmax = comments (	maximum per optional)	mitted temperat	ure

10.5.2	TABLE: Resistance to	heat of non-metallic encl	osures	P
K AND	Test method used:	abotek Anbore	See below	
otek p	Non operative treatment	nt	. [ √ ]	P.
Hotok	Empty ENCLOSURE	and the second second	. [ v ] have a poster	Anbole
une utek	Operative treatment		. Anbo vek storek	hupore.
	Part	Test temperature (°C)	Duration (h, min)	Verdict
Anbo	Enclosure	125	nbotek Anton All	ek P Ant
Aupr	Dielectric strength test	(6.8)	. 500 V r.m.s./peak/d.c	otek P
Note(s): No	hazardous live parts sha	Il be accessible	Anbotek Anbote Ar	Anbotek
10.5.3	TABLE: Insulating mate	rials		Piek
10.5.3a)	Ball pressure test	Anboit An	otek anbotek Anbo	P
Anboten	Max. allowed impression	on diameter	2 mm	- v - v
	Part	Test temperature (°C)	Impression Diameter (mm)	Verdict
10 <sup>14</sup>	Terminal	125	1.0	P
Not	PCB	125	Anbolic I.1 botek	Anbol P
nbo	Enclosure	125	1.2	AntPreh
Note(s): No	hazardous live parts sha	Il be accessible	stek Anbois Annotek	Anbote
10.5.3	TABLE: Insulating mate	rials		<sup>ete</sup> N en <sup>to</sup>
10.5.3b)	Vicat softening test (ISC	O 306)	Anbotek Anbo	pote <sup>k</sup> N
	Part	Vicat temperature (°C)	Thickness of sample (mm)	Verdict

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Note(s):

11	TABLE: PI	TABLE: Protection against hazards from fluids								
Ant			ation; 2 – clea voltage (V); 7					No.k		
1	2	3	4	5	6	7	8	9		
	hipoten-	Anbo	- totek	treboto.	Ann	- May	woiek I	,000°		

ater.	Anbo	No.	hore Anu		Voda Vas	bu
11.7.2	TABLE: Leaka	ge and rupture at	high pressure			NANDOT
Part	Maximum permissible working pressure (Mpa)	Test pressure (Mpa)	Leakage test Yes / No	Burst test Yes / No	Comme	nts
And	abotok	Anbore Ans	otek - anbo	lek - Pupo,	protek	Anboten
Note(s):	abotek	Anbote. Ar	in otek	hbotek Anbo	An hotek	Anbote
11.7.3	TABLE: Leaka	ge from low-pres	sure parts			tok N anb
ak Anbo	Measurements:	1 - ; 2 – (Pa); 3 –;	4 - Andu sek	abotek	Anbore Any	votek.
	Part	Test press	ure Leak	age (Yes/No)	Comme	nts
nbotek	hopor hu	Lotek Anbol	ek Aupo,	A shotek	Anboten	And
Note(s):	Anboto	Anv otek An	botek Anbo	in prin	rek Anboten	Anbo

1001	Pres		104	100	he.	14	10-11	S., .	me		
12.2.1	TABLE: Ioniz	ing radia	tion						101	N Anb	
Lo	ocation	Measu	red values µ	Sv/h		Verdict	:		Comme	nts	
10 <sup>10</sup> P	n- dek	abotek	Papo,	be.	Lotek	- Into	0 <sup>for</sup>	unbo		botek	
Note(s):	And	nbotek	Anboro		Annatok		nbotek	Aupor	4 Mar	hotek	
12.5.1	TABLE: Sour	nd level r	neasuremei	nts						N notel	
	Location			Measured values dBA				Calculated maximum sound pressure level			
P.C.	An-			Anbor Ar botek Anboten			Aul	10 10		iek p	
Note(s):	ne stek	nbotek	Anbor	bu.	~otek	anbr	10 <sup>K</sup>	Aupo		botek	
12.5.2	TABLE: Ultra	sonic pr	essure mea	surem	ents				1	Net	
Lo	ocation		Measur	ed valu	ies		Comments				
			dB		kHz						
. Anbot	lek Anbo.	ey.	-botek	otek Anboten Anbo				otek -	Aupoto	Pun	
Note(s):	botek Anbo		pri. notek	ant	<sup>791</sup> 0	Aupon	. ok	botek	Anbo	10. P.	

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13.2.2	TABLE: Batteries tests	5				oter	Ν	
- alt-	Battery load and charging	ng circuit diagram:	Anboro	Ann	10K			
10°'	Battery type	Anna and a start a	Anb	ofer And	Nor			
Anboio	Battery manufacturer		e <sup>le</sup> p	Anboten I	up. sek			
Anbore	Battery model	ek Anbo	otek	Anboten	Anbo			
Anbot	Battery catalogue No	polek product h	Lotek	Anbotek	Aupor			
ok An	Battery ratings	- Abatak - Antaota -	Anotek	Anbote	Anb			
otek	Reverse polarity instalm	nent test	Ann	stek anb	Nek I	upo,	N	
Single	e component failures		Ver	dict				
Component		Open circuit, result		Short circuit, result				
Ann	ek Anbo	- All hotek An	poten	Anbo	botel	ŀ.	Anb	031
Note(s):	wet botek An	pore Ann tek	abotek	Anboit	bre.	Nor		d

14.1	TABL	E: Components			Per
Object/pa	art No.	Manufacturer/trademark	Type/model	Technical data	Mark(s) of conformity
Plastic en	closure	Du Pont	PA66 FR7025 V0F(NC010)	ABS; HB	Tested with appliance
PC	3 sotek	Shenzhen Sye Quickpcb Co Ltd	PCB-04	V-0; 130°C	Tested with appliance
Terminal	block	Anytek Technology Corp	Anbotek T7 Anbot	51-300V; 115°C	Tested with appliance
Fus	e An <sup>b</sup>	Alpha-Top Technology Corp	mSMD050	33V; 0.5A	Tested with appliance
Piezore	sistor	Lien Shun Electronics Co Ltd	ZOV-14D471K	470(423-517)	Tested with appliance
Safety ca	pacitor	Cali Electronics Co Ltd	X2	Anbolek	Tested with appliance
Rela	iy Anboro	Omron Relay&Devices Corp	G5NB	12-24V; 200mW	Tested with appliance
Internal	wire	ZI LI ELECTRONIC CO LTD	2468	300VAC; 20AWG; 80°C	Tested with appliance

14.3	TABLE: Overte	emperature protection devi	ces	nto <sup>t</sup> N
Reliability te	est:			
Con	nponent	Type(see note)	Verdict	Comments
Anboro.	- Anv stek	Anbotek Anbot	An. Anbot	er Aupo, h.
Note(s):	er Aup	k abotek Anbota	And sok	botek Anbor An
NSR = non-	-self-resetting (10	times)		
NR = non-r	esetting (1 time)			



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SR = self-resetting (200 times)

14.6	TABLE: Mains transformers tested outside equi	TABLE: Mains transformers tested outside equipment				
Anboten	Туре:	k Anbotek Anb	, ak			
Anbore.	Manufacturer:	otek Anbotek I	nbo			
Anbo	Temperature protection class of the lowest RATED winding (class or maximum RATED temperature) :	Anbotek Anbotek	Anb			
Jek.	Winding identification:	Anboy Lak abotel				
tek	Type of protector for winding:	Anboi An	,te <sup>k</sup>			
		Short circuit	Over load			
Aups	Elapsed time:	1s	Lotek1s Anbol			
Aupo	Current, primary (A):	nbotek Anbot	An. Notek An			
e Pi	Current, secondary (A):	abotek Anbote	Ann			
<sup>N97</sup> ek	Winding temperature, primary (°C):	abotek Anbore	And			
	Winding temperature, secondary (°C):	hin wood Alano	ten Anbu stek			
nbotek	······································					
nbotek	Tissue paper/cheesecloth test:	where the state of	hoten Anor			

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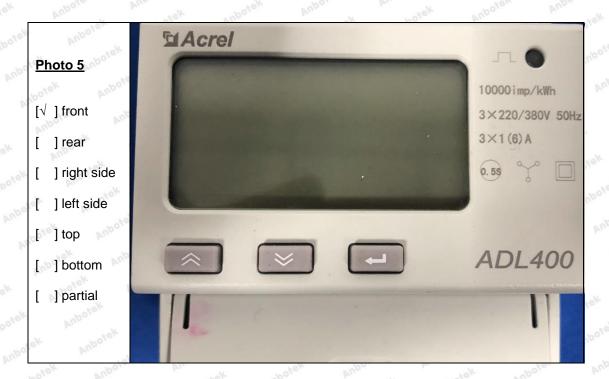


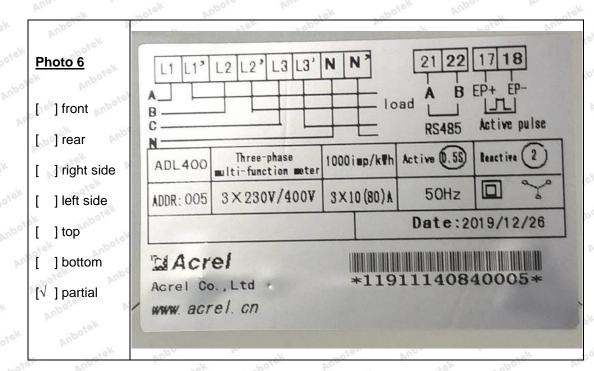
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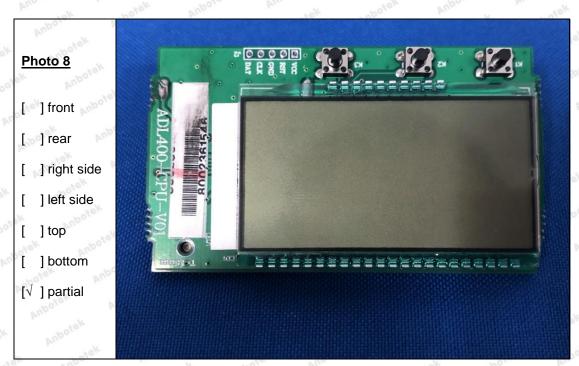
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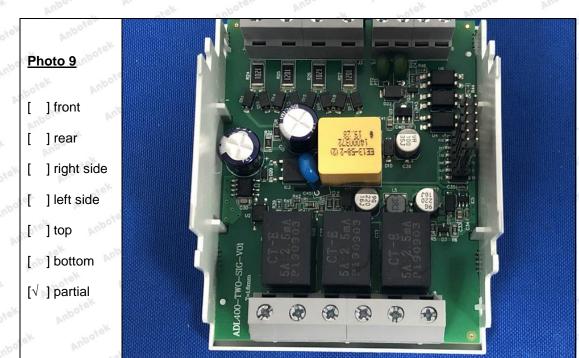


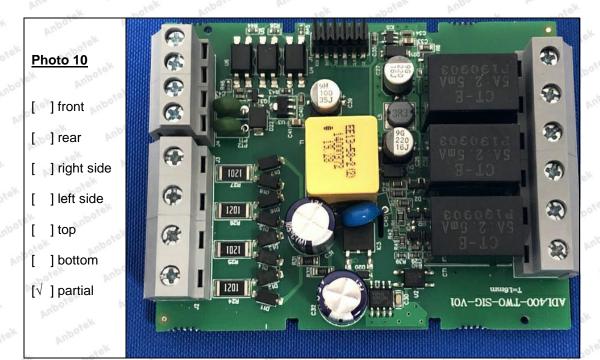
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