

Report No.: 78231SC20904601

Test Report

Client Name : Acrel Co., Ltd.

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

Product Name : Three-Phase Electric Meter

Date : Sep.19,2022

Shenzhen Anbotek Compliance Laboratory Limited

*Approved**



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TEST REPORT

EN 61010-1

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

Compiled by: Sanko Chen

Sanko Chen

Approved by:

Date of issue Sep. 19, 2022

Contents: 51 pages

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

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

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

Guangdong, China.518128

Testing location: Same as above

Applicant : Acrel Co., Ltd.

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

Test specification

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

Test procedure: LVD test report

Type of test object

Description: Three-Phase Electric Meter

Trademark: Acrel

DTSD1352,DTSF1352,DTSY1352, DTSD1352-C,DTSD1352-F, Model/type reference

DTSD1352-FC, DTSD1352-F2C, DTSD1352-KFC, DTSY1352-NK,

DTSY1352-Z, DTSY1352-RF

Jiangsu Acrel Electrical Manufacturing. Co., Ltd. Manufacturer:

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

Province, China

Same as manufacturer Factory.....

Measuring Voltage: AC 3x230/400V

Measuring Current: AC 3x1(6)A,3x10(80)A Rating

Freq:50Hz



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Test item particulars

Pollution degree..... III

Operating conditions Continuous operation

Possible test case verdicts

Testing

Date of receipt of test item Sep. 02, 2022

Date(s) of performance of test....... Sep. 02, 2022 to Sep. 09, 2022

General remarks

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

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

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

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

This report shall not be reproduced except in full without the written approval of the testing laboratory.

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

Copy of marking plate

Three-Phase Electric Meter

Model No: DTSD1352

Rating: Measuring Voltage: AC 3x230/400V

Measuring Current: AC 3x1(6)A,3x10(80)A

Freq:50Hz

CEZ

Made in China

Jiangsu Acrel Electrical Manufacturing. Co., Ltd. No.5, Dongmeng Road, Nanzha Street, Jiangyin

City Jiangsu Province, China

Importer: XXX Address: XXX



4.4.2.14

4.4.3

4.4.4

Voltage selectors

Duration of tests

ofer pr	EN 61010-1	Anbotes Anb	nbotek
Clause	Requirement – Test	Result - Remark	Verdict
Pupote.	Mary Thorest Auton of Mary	ek Pupote, Pup	anhorek
4.4 amboret	TESTING IN SINGLE FAULT CONDITION		Popote
4.4.1	Fault tests	Sorek Anborek Anbo	ek P
4.4.2	Application of fault conditions	turn otek supotek tupo	P
4.4.2.1	Single fault conditions not covered by 4.4.2.1 to 4.4.2.12	Antotek Anbotek Ar	Anbotes N
4.4.2.2	Protective impedance	Antiples Anti-	N
4.4.2.3	Protective conductor	otek Aupolek Aupo	N _{total}
4.4.2.4	Equipment or parts for short-term or intermittent operation	botek Anborek Anbor	ale N Anbi
4.4.2.5	Motors	Aubono buo otek au	octor N by
4.4.2.6	Capacitors	polpores And	AnboteN
4.4.2.7	Mains transformers	Anbores Anna	nnbPek
4.4.2.7.2	Short circuit	olek Aupotes Aupotes	Noorek
4.4.2.7.3	Overload	Hotek Anbotes Anbo	v N
4.4.2.8	Outputs	Hotek Anbotek And	HOLE P
4.4.2.9	Equipment for more than one supply	And Antorek Ant	Р
4.4.2.10	Cooling	Wasey Wupoday	N
4.4.2.11	Heating devices	Ann otek Anbotek	Arribon N
4.4.2.12	Insulation between circuits and parts	by busy wipolek	Р
4.4.2.13	Interlocks	poter Anna rek apote	Nanbo

5 Anbotek	Marking and documentation		Р	
5.1.1	General	world Amborek Anbo	ok P	- 40
Hak or	Required equipment markings are:	anbotek Anbo	· yes	16.
Major	Visible:	true dek pupotek. V.	P	F.
up. Mak	From the exterior; or	Amb otek ambotek	<i>™</i> µpo P	No.
Plub.	After removing a cover; or	Anti-	N	
BUDDA	Opening a door	pley hup tek supotek	N	upo,
PUDO	After removal from a rack or panel	upoley Wipo	N N	phipi
worlek An	Not put on parts which can be removed by an operator	Anborek Anborek An	potek N	2
-sek	Letter symbols (IEC 60027) used	Ann sek anbosek	Appo P	No.

Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

Conformity after application of fault conditions

Tel:(86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com



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Clause	Requirement – Test	Result - Remark	Verdict
Pupoter	PULL PROPER PURO, Pr. Pole	ar auguse, ton	anborek
arthotel	Graphic symbols (IEC 61010-1: Table 1) used	stek Bupoles Augo	P
5.1.2	Identification	hotek Anborek Anbu	ek - d
tek or	Equipment is identified by:	anbotek Anbotek	P
otek	a) Manufacturer's or supplier's name or trademark	And otek onbolek Ar	P. P.
ntek.	b) Model number, name or other means	Anti-	Wupo, L
AUD.	Manufacturing location identified	And rek sobotek	MP.
5.1.3	Mains supply	tek Vupo tek rupotek	Fupo,
Artho	Equipment is marked as follows:	spotetic Andonial about	By - Pup
Or Du	a) Nature of supply:	Pupolek Pupou Bu	notek p
ootek	1) a.c. rated mains frequency or range of frequencies	Pulpotek Vuposek	proboteP
P.Los	2) d.c. mark with symbol 1 of Table 1	Ann otek ambotek	Rule P
D'Ur	b) Rated supply voltage(s) or range	er and atek anbotek	Ppo
Pulp	c) Max. rated power (W or VA) or input current	Poles, Yupp.	W Panbi
otek An	The marked value not less than 90 % of the maximum value	Anbotek Anti-	otek N A
-otek	If more than one voltage range:	Art anboien	N. N.
YU.	Separate values marked; or	Ann otek Anbotek	Anto N
bru, otto	Values differ by less than 20%	And otek amborek	N
Prupa	d) Operator-set for different rated supply voltages:	poter Annualle antique	POPO
TUP	Indicates the equipment set voltage	Aupotos Aupo	otek N M
otek I	Portable equipment indication is visible from the exterior	Anboros Anborek	N
motely.	Changing the setting changes the indication	k hotek aupoten	AMD N walk
Anhotel	e) Accessory Mains socket-outlets accepting standard MAINS plugs are marked:	orek Anbotek Anbotek	Anbai Anbai
rolk Pulp.	With the voltage if it is different from the mains supply voltage	inbotek Anbotek Anbr	nek N pri
	For use only with specific equipment	Anbo, ok potek. A	ipole N
anbatek ipo	If not marked for specific equipment it is marked with:	Anborak Anborak	Anbotek abotek
nnbatek.	The maximum rated current or power; or	Tek Pupotek Pupon	N
200	Symbol 14 with full details in the documentation	and anbotak anbotak	N
5.1.4	Fuses	upo. Pupolek Pupo	P
botek	Operator replaceable fuse marking (see also 5.4.5)	Anbarek Anbarek Ar	N





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Clause	Requirement – Test	Result - Remark	Verdict
anbotek	tripo, to to upology business business	ak Pupatak Yupo,	aborek.
5.1.5	Terminals, connections and operating devices	brek ambotek Ambo	P
5.1.5.1	General	orek Anborek Anbo	A P
notak Ani	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators marked	Aupotek Aupotek William	potek P
wolek.	Insufficient space, symbol 14 used	k notek Anbotes	Pupper Name
Anborek	Push-buttons and actuators of emergency stop devices and indicators:	tek Anborek Anbores	An N
Arbar	used only to indicate a warning of danger or	shortelle Anthone Anthon	er N pub
ok pot	the need for urgent action	spolek bupore bus	N Yer
polek	coloured red	albahak Anbola Ar	LoteN .
abolek	coded as specified in IEC 60073	abotek Anbote	Nek
pupatak	Supplementary means of coding provided, if meaning of colour relates (see IEC 60073):	lek Aupolek Aupolek	Anbotek Anbotek
Pupo,	to safety of persons; or	porek Anbor ok por	K N Pupo
Dr. Mup.	safety of the environment	upotok Aupote Ann	otek N M
lotak p	Indication of emergency stop devices	anbotek bupons by	Medical
5.1.5.2	Terminals	abotek Anbote	Melon water
woodek.	Mains supply terminals identified	ex abotek Anbore	N stell
polek	Other terminal marking:	tel shorek Anbores	P2.
k - 20.	a) Functional earth terminals (symbol 5 used)	por his abolek Anbole	N
. oV	b) Protective conductor terminals:	Antonia nik kontek Ant	P AT
No.	Symbol 6 is placed close to or on the terminal;	Aupo, Mr. Molek	upoles P
upo,	Part of appliance inlet	Vupo, Mr. Polejk	PLUP ON
Aribora	c) Terminals of control circuits(symbol 7 used)	ok Aupon ok molek	No.
Anbore	d) Hazardous live terminals supplied from the interior	potek Anborek Anborek	- Anbor
eak par	Standard mains socket outlet; or	unbo lok photek Anb	N Bu
. ok	Ratings marked; or	Anbo ak abotek	ipote N
upo.	Symbol 14 used	Anbor ak sporak	Augo N
5.1.6	Switches and circuit-breakers	Aubon Me Molok	ANN PRES
ATIDOTA	If disconnecting device, off- position marked	optek Anbore Are motel	Nobole
Pupol	If push-button used as power supply switch:	upolek bupon ve mo	ele N parit
lek bu	Symbol 9 and 15 used for on-position	obatale Anbores Anto	_atell N
Lotek	Symbol 10 and 16 used for off-position	par antek anborem Al	N





Clause	Requirement – Test	Result - Remark	Verdict
Olause	requirement rest	TCSuit - TCHIant	Verdiet
Pr. potek	Pair of symbols 9, 15 and 10, 16 close together	and abotek Anboter	N
5.1.7	Equipment protected by double insulation or reinforced insulation	upotek Vupotek Vupotek	lek N An
ley by	Protected throughout (symbol 11 used)	Pupoley Pupo	polek N
potek	Only partially protected (symbol 11 not used)	anbotek Antio	nbo'N
5.1.8	Field-wiring terminal boxes	No such parts	- abatek
Anhorek	If terminal or enclosure exceeds 60°C:	otek Pupology Wupo,	N
anba	Cable temperature rating marked	Lotek Anbores Anbor	N
nd you	Marking visible before and during connection or beside terminal	Ambotek Ambotel Amb	botek N
5.2	Warning markings	Pulpater Pupp	enpotak.
Anbores	Visible when ready for normal use	Anbores Anbo	nabPak
Pupalay	Are near or on applicable parts	lek Aupolas Aupol	Phote
anbot	Symbols and text correct dimensions and colour:	hotek Anbotek Anbo	V P
of Arri	a) symbols min 2,75 mm and text 1,5 mm high and contrastingin colour with background	Anbotek Anbotek Anb	otek P
obotek	b) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and	Anborok Anborok	unbote P
Anbatek	0.5 mm depth or raised if not contrasting in colour	ak Anbotek Anbotek	Anborek Anborek
Aupo	If necessary marked with symbol 14	poter Aupo tek upot	P _{Propo}
otek Ant	Statement to isolate or disconnectif access byusing a tool to HAZARDOUS LIVE parts is permitted	Anbotek Anbotek Anh	otek P A
5.3	Durability of markings	Ambores Ambo	anboP ^k
Aribotel	The required markings remain clear and legible in normal use	(see appended table)	Porek
5.4	Documentation	house the whole	_0.Upo
5.4.1	General	unboros Amb	P A
-polek	Equipment is accompanied by documentation for safety purposes for operator or responsible body	Pupotek Pupotek	nbotek P
Anborek	Safety documentation for service personnel authorized by the manufacturer	W Pupatsk Vupatan	Anbotek Anbotek
Anbo	Documentation necessary for safe operation is provided in printed media or	otek Anbotek Anbotek	Papal
lek	in electronic media if available at any time	pure state supplies Autor	P
rek A	Documentation includes:	Pupp. Lek - apolek V	DOJO.
Da	a) Intended use	Aupa, bu. stek	Anboren P





Clause	Requirement – Test	Result - Remark	Verdict
Puppig	trong supported the troop	ak anbuth Ann witek	anhorek
pribote	b) Technical specification	ortek Anbores And	P
antic	c) Name and address of manufacturer or supplier	Polsk Pupoker Pup	P
ek o	d) Information specified in 5.4.2 to 5.4.6	Purp Puppley Pupp	P
potek	e) Information about how to mitigate risks remaining	Anbotek Anbotek Ar	anbotek Anbotek
Anboten	f) accessories for safe operation of the equipment specified	Antoles Antoles	Ani Brek
Artho Artho	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	Anborek Anborek Anborek Anborek Anborek	Pupe But but
Osek	h) Instructions for lifting and carrying (see 7.5)	eupoyak Aupon M	NesodeN
Anbotek	Warning statements and a clear explanation of warning symbols:	Anbarak Anbarak	anb Brek
Plan	Provided in the documentation; or	olar And otak anbatak	N
but	Information is marked on the equipment	apoles, Vuor	N PU
5.4.2	Equipment ratings	Pupotes Vinna, tak	otek
otel	Documentation includes:	aupotek Buros sek	who telk
nbotek	a) Supply voltage or voltage range	AC220-230V	Pall Pall
unbatek	Frequency or frequency range	50Hz	Nov
e apale	Power or current rating	10A	N
Ant	b) Description of all input and output connections in accordance to 6.6.1 a)	Anbotek Anbotek Anbotek	otek P
Hotek.	c) Rating of insulation of external circuits as required by 6.6.1b)	Anborek Anborek	upotek N
Alpotek	d) Statement of the range of environmental conditions	Ambient temperature: 5°C~40°C	Anborel
PUPO	e) Degree of ingress protection (IP, IEC 60529)	IPX0	Panh
PUP	f) Impact rating less than 5 J	supotek bung.	rak P p
lak b	IK code in accordance to IEC 62262 marked or	eupoley, Mupo, W.	N ^{Alstod}
looi an	symbol 14 of table 1 marked, with	Anbolak Anbol A	P ^V
anborek	RATED energy level and test method stated	anbotek anbotek	N
5.4.3	Equipment installation	stek anbatek anbata	P.U.,
not	Documentation includes instructions for:	orak anbotak Anbuta	W.F. BOOM
9/r	a) Assembly, location and mounting requirements	child work wholey who	Р
-ek	b) Protective earthing	Anto rek abatek Ar	N
par i	c) Connections to supply	Anbo	Anboten P



Product Safety



Report No. 78231SC20904601

Clause	Requirement – Test	Result - Remark	Verdict
Puppier	trues to the state of the state	or supplier to	anhorek
arthores	d) Permanently connected equipment:	orek Anbores Anbo	· noon
	1) Supply wiring requirements	Lorek Amborek Ambo	N
tek Ar	If external switch or circuit-breaker, requirements and location recommendation	Anbotek Anbotek Anb	botek N
polar	e) ventilation requirements	Anbotet Anti-	anbo'N
Anbore	f) special services (e. g. air, cooling liquid)	Antole, And	N
Anboren	g) Instructions relating to sound level	tak anboran Anbo	Noon
5.4.4	Equipment operation	notek Anboten Anbo	5/c = 2/
de de	Instructions for use include:	Park Pupoley Pupo	- An
bolek	a) identification and description of operating controls	(see user manual)	P
s nbotak	b) Positioning for disconnection	anborek probons	New
	c) Instructions for interconnection	ek supotek Aupote	P
n abott	d) Specification of intermittent operation limits	(see user manual)	P
26 aV	e) Explanations of symbols used	ov potek Aupor	P
k	f) Replacement of consumable materials	Anbo ok hotek An	N
o.	g) Cleaning and decontamination	Anton A Bolek	N Page N
Anborek	h) Listing of anypoisonous or injurious gases and quantities	anbotek Anbotek	purto N
pupole	i) RISK reduction procedures relating to flammable liquids (see 9.5)	otek Anborek Anbore	N Anb
Week WUD	j) RISK reduction procedures relating burn from surfaces permitted to exceed limits of 10.1	Anbotek Anbotek Anb	otek N b
nbotek	Additional precautions for IEC 60950 conforming equipment in regard to moistures and liquids	Anbotek Anbotek	N
Anbotek	A statement about protection impairment if used in a manner not specified by the manufacturer	k Pupatek Pupa,	N N N N N
5.4.5	Equipment maintenance and service	otak Anbote And	- 0000
anbr	Instructions for responsible body include:	hotek anboter And	ak -
stelk by	Instructions sufficient in detail permitting safe maintenance and inspectionand continued safety:	Anbotek Anbotek Anb	tootek P
nbotok	Instruction against the use of detachable MAINS supply cord with inadequate rating Specific battery type of user replaceable batteries	Vupolar Vupo,	Р
Pub.	polos kups trak supp.	William Take Cobolok	PuBoles.
ATIDO	Any manufacturer specified parts	Hey Augo, tel upately	P _{nobo}
PUPO	Rating and characteristics of fuses	Thology Bupon Bun	P
lek bu	Instructions include following subjects permitting safe servicing and continued safety:	Anbotek Anbote Anti-	notek P
	a) product specificRISKSmay affect service personnel	Ambores Amb	Anboit P.





	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Pupore	And the supported And the support	arbone Popular	anhorek
puppier	b) protective measures for theseRISKS	brok Anboros Anbo	Popor
	c) verification of the safe state after repair	Folek Aupolek Wupo	P
5.4.6	Integration into systems or effects resulting from special conditions	Anbotek Anbotek Anb	polek N
upoter	Aspects described in documentation	Anbore Ann	anbo'N
Anboren	And tek abotek Anbour A hote	k Aupoles, Vuo	nbotek
6 Anboren	Protection against electric shock	otek Anborek Anbo	- apole
6.1	General	notek Anbotek Anbo	BK - up
6.1.1	Requirements	motek Anbotek Anbo	10k
jbolek obolek	Protection against electric shock maintained in NORMAL CONDITION and SINGLE FAULT CONDITION	Comply with requirement	Anboter.
pa palak	ACCESSIBLE parts not HAZARDOUS LIVE	ak abotek Anbote	And P offer
esk kupot	Voltage, current, charge or energy below the limits in NORMAL CONDITION and in SINGLE FAULT CONDITION between:	botek Anbotek Anbote	P Ambe
nek	ACCESSIBLE parts and earth	Anbourek anbotek Ani	N
Anbotek	Two ACCESSIBLE parts on same piece of the equipment within a distance of 1,8 m	Anbotek Anbotek	unio a P ambotsk
Aribora	Conformity is checked by the determination of 6.2 and 6.3 followed by the tests of 6.4 to 6.11	sek bupoup, Williams	Poore
6.1.2	Exceptions	por lak abolek Anbole	- bon
otek k	Following HAZARDOUS LIVE parts may be accessible to an OPERATOR:	Anbotek Anbotek Anb	obotek N A
anbotek atek	a) parts of lamps and lamp sockets after lamp removal	Anbotek Anbotek	NA NA
Anbotel	b) parts to be replaced by operator only by the use of tool and warning marking	otek Anbotek Anbotek	A'Ѱ
x Rup,	Those parts not hazardous live 10 s after interruption of supply	unbotek Anbotek Anbo	ROK N AT
opolok by	Capacitance test if charge is received from internal capacitor	Vupotek Vupotek V	ipatek N
6.2	Determination of accessible parts	in otak antional	Burn - resp

Shenzhen Anbotek Compliance Laboratory Limited

General

Examination

6.2.1

6.2.2



Ρ Ρ

Unless obviously determination of accessible

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

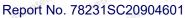
parts as specified in 6.2.2 to 6.2.4



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Noroal	Pupo, bu ter uputer hupo,	- motalk British	184
Clause	Requirement – Test	Result - Remark	Verdict
DUD.	water propor	Anti-	Pupo,
priboto	- with rigid test finger (as specified B.1) anda force of 10 N	otek Anbere Anbertek	P _A hipot
6.2.3	Openings above parts that are hazardous live	No openings	ek N M
potak An	- test pin with length of 100 mm and 4 mm in diameter applied	Anbotek Anbotek Ar	palek N
6.2.4	Openings for pre-set controls	Anbores Anbores	Ann Nek
Anbotak	- test pin with length of 100 mm and 3mm in diameter applied	rak Anborok Anborok	And Anbole
6.3	Limit values for accessible parts	Joseph Anboro And	ek - anb
6.3.1	Levels in normal condition	abolisk Aupoles Aug	orek P
botek	a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.	Accessible enclosure voltage less than limit value	Anbote P
Anbolek Anbolek	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	alk Anbotak Anbotak	RAP N
anbote	Voltages are not HAZARDOUS LIVE the levels of:	otek Anbotak Anbar	N101
otak Anb	b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz	Anbotek Anbotek Anbo	otek N A
anborok	for wet locations measuring circuit A.4 used	Anborek Anbore	N
Aupolek	c) Levels of capacitive charge or energy less:	ak Aupolek Plipo.	Notes
k pupotes	1) 45 μC for voltages up to 15 kV peak or d.c. or line A of Figure 3	Solek Anborek Anbore	N N probo
otek bi	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	Ambotok Ambotek Amb	N A
6.3.2	Levels in single fault condition	unbosek Anbos	P.v.
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	Panbonek
anbo anbo	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	otek Anbotek Anbotek	N _i nbo
stelk ar	Voltages are notHAZARDOUS LIVEthe levels of:	Martek Anborek Anbo	- vale -
nbotak Anbotak	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	N Anbotek
Auporn	for wet locations measuring circuit A.4 used	stek Pupare, Per Hotek	Naboti
Anbot	c) Levels of capacitive charge or energy less:	upology Wipoge Wo	ek N prit
ink Pil	1) 45 μC for voltages up to 15 kV peak or d.c. or line A of Figure 3	abotek Anboten Anb	_alek N







Clause	Requirement – Test	Result - Remark	Verdict
Anbotek	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	orek Anborek Anborek	N Anibos
6.4	Primary means of protection	Pupotes Vileo Sek 2000	en P M
6.4.1	ACCESSIBLE parts prevented from being HAZARDOUS LIVE by one or more of following means:	Anborek Anborek Ar	parek P Anbotek
Anbor hotek	a) ENCLOSURES or PROTECTIVE BARRIERS (see 6.4.2)	rak anborak Anborak	AN Pres
p. shar	b) BASIC INSULATION(see 6.4.3)	telk obolek Anbole	Р
iek - u	c) Impedance (see 6.4.4)	upon ke kupotek Aupon	N Paris
6.4.2	Enclosures and protective barriers	Anbu tek sobolek An	P
log.	- meet rigidity requirements of 8.1	bupp tok supotek	Mupor N
Anbo.	- meet requirements for BASICINSULATION, if protection is provided by insulation	ek anbotek Anbotek	An'N
Anbote ek Anb	- meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access	botek Anbotek Anbot Anbotek Anbotek Anbot	otek Amb
6.4.3	Basic insulation	Anton An morek	unbotes P
Pupar	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	Anborek Anborek	Anti Paris
6.4.4	Impedance	stell subolek Anbore	N
sk Rup,	Impedance used as primary means of protection meets all of following requirements:	Anbotek Anbotek Anbot	Name N
otek p	a) limits current or voltage to level of 6.3.2	Anbotok Anbu sek	nbote ^l N
inpotek otek	b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate	Ambatek Ambatek	Pupe N _K
Anbotek	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7	orek Anbotek Anbotek	A'N Anbo
6.5	Additional means of protection in case of single fault condition	inbough Williams W	rotek Ar
6.5.1	ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of:	Anborak Anborak A	Anbone's
ATIOTEK	a) PROTECTIVEBONDING(see 6.5.2)	stek Aupotek Aupo	Popot
Anbo	b) SUPPLEMENTARYINSULATION (see 6.5.3)	Lotak anbotek Anbotek	P
lok bu	c) automatic disconnection of the supply (see 6.5.5)	Anbotek Anbotek Anbo	polek N
poles	d) current-or voltage-limiting device (see 6.5.6)	anborer Anti-	N

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Alternatively one of the single means of protection is used: e) REINFORCED INSULATION(see 6.5.3) f) PROTECTIVE IMPEDANCE (see 6.5.4) 6.5.2 Protective bonding 6.5.2.1 ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION: Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL 6.5.2.2 Integrity of protective bonding a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses	N N N
is used: e) REINFORCED INSULATION(see 6.5.3) f) PROTECTIVE IMPEDANCE (see 6.5.4) 6.5.2 Protective bonding 6.5.2.1 ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION: Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL 6.5.2.2 Integrity of protective bonding a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and	0'D4.
f) PROTECTIVE IMPEDANCE (see 6.5.4) 6.5.2 Protective bonding 6.5.2.1 ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION: Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL 6.5.2.2 Integrity of protective bonding a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and	0'D4.
6.5.2 Protective bonding 6.5.2.1 ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION: Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL 6.5.2.2 Integrity of protective bonding a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and	Felt Anbol
ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION: Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL 6.5.2.2 Integrity of protective bonding a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and	Felk Anderek
HARZARDOUSLIVE in SINGLÉ FAULT CONDITION: Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL 6.5.2.2 Integrity of protective bonding a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and	Felk Antonek
TERMINAL; or Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL 3.5.2.2 Integrity of protective bonding a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and	
to PROTECTIVE CONDUCTOR TERMINAL 5.5.2.2 Integrity of protective bonding a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and	Aupon Au
a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and	Anbote N
connected structural parts or discrete conductors or both; and withstands thermal and	ak woode
	botek N Anbotek Ant
b) Soldered connections:	Anhoros -
Independently secured against loosening	N soois
Not used for other purposes	el anto Nek
c) Screw connections are secured	-over None
d) Protective bonding not interrupted	N _{ad} e N
exempted as removable partcarries MAINS SUPPLY INPUT connection	Ambarek N
e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4	Arbotek
f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING)	otek PN
g) If mains supply passes through:	TOR -
Means provided for passing protective conductor	And Tak N
Impedance meets 6.5.2.4	AMBO
h) Protective conductors bare or insulated, if insulated, green-and-yellow	otok Ambotek
Exceptions:	otola Notou
1) earthing braids	N N
2) internal protective conductors etc.	Ariba Lak N
Green/yellow not used for other purposes	Mek





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Clause	Requirement – Test	Result - Remark	Verdict
rupotek	Anbor Arionek Anaoten Anbort	ek anbutek kabon	B) BOTOL
pribotel	TERMINAL suitable for connection of a PROTECTIVE CONDUCTOR, and meets 6.5.2.3	onek Anbotek Anbotek	N
6.5.2.3	Protective conductor terminal	Supoter Augo dek supo	ek - Pu
te, b	a) Contact surfaces are metal	Aupolis Aupolisk	patek P
potek	b) Appliance inlet used	Anbotes Anto	anbot P
Anbotek Anbotek	c) For rewireable cords and permanently connected equipment, protective conductor terminal is close to mains supply terminals	otek Anborek Anborek	An Piek
ek bupa	d) If no mains supply is required, any protective conductor terminal:	Aborek Anborek Anbor	ek - but
polek	Is near terminals of circuit for which protective earthing is necessary	Anbotek Anbotek An	ool N
anbotek	External if other terminals external	Aupotek Aupo.	Nek
Anbalak	e) Equivalent current-carrying capacity to mains supply terminals	olek Anbolek Anbolek	N N N N N N N N N N N N N N N N N N N
Pulpa	f) If plug-in, makes first and breaks last	abote Anbot	N PLACE
otek An	g) If also used for other bonding purposes, protective conductor:	Anbores Anisotek Anis	olek — t
watek	Applied first	Anboten Anboten	N.
VIII.	Secured independently	k wotek anbotek	ATTO N
Pilia	Unlikely to be removed by servicing	the moter ambover	N
bus	h) Protective conductor of measuring circuit:	upote Ann otek antote	Nago
otek bu	Current RATING equivalent to measuring circuit TERMINAL;	Anbotek Anbotek Anb	otek N P
Kotek	2) PROTECTIVE BONDING:	hotek Anbore	N
wolek.	Not interrupted; or	k hotek Anboten	N N
Anbotel	i) Functional earth terminals allow independent connection	Notek Anbotek Anboteh	A N Ambo
eak Rup	j) If a binding screw used for PROTECTIVE CONDUCTOR TERMINAL:	unbotak Antronek Antr	net P pr
. o.k	Suitable size for bond wire	Anbore All Abotek A	ibole P
ipo.	Not smaller than 4,0mm (No. 6)	Anburak sporak	Aupole.
Puppy	At least 3 turns of screw engaged	and Auton Mark Papier	ATP of the St
Pupore	Passes tightening torque test	optek Huppy	P _{in} bo*
ak Anbe	k) Contactpressure not capable being reduced by deformation of materials	Anborok Anborok Anbo	el ^e N pari
6.5.2.4	Impedance of protective bonding of plug- connected equipment	Anbotek Anbotek Ar	N
1 - 1	ALL MAN	10.	6337





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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Pupou	har anbores Ane	anboth her sek	arbore
Anbotek Anbot	Impedance between PROTECTIVE CONDUCTOR TERMINAL and each ACCESSIBLE part where PROTECTIVE BONDING is specified, is:	otek Anbotek Anbotek Obotek Anbotek Anbotek	ek Moo
igk p	less than 0,1 Ohm; or	Vupo, Fek "polek P	N N
	less than 0,2 Ohm if equipment is provided with non detachable cord	Anbotek Anbotek	Anbola N
6.5.2.5	Bonding impedance of PERMANENTLY CONNECTED EQUIPMENT	tek Anborek Anborek	N Arthol
6.5.2.6	Transformer protective bonding screen	Jores Antonia Antonia	EX N PL
otek bu	Transformer provided with screen for protective bonding:	Anborek Anborek An	botek N
Anbotek Anbotek	screen bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses (see6.5.2.2 a)	lek Anbotek Anbotek	Amborek Ambor
er Pupa	screen bonding with soldered connection (see 6.5.2.2 b) is:	potek Anbotek Anbot	W N puri
otak .	- Independently secured against loosening	And otek anbotek An	N
nek.	- Not used for other purposes	Anti-	Marion N
6.5.3	Supplementary insulation and reinforced insulation	ek Anbotek Anbotek	Anbore
Pupole,	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	potek Anborek Anbor	k P
6.5.4	Protective impedance	Ankon k ank	N N
nbotek ak	Limits current or voltage to level of 6.3.1 in NORMAL and to level of 6.3.2 in SINGLE FAULT CONDITION	Anborek Anborek	nbotek Anbotek
Anborek	CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of DOUBLE or REINFORCE DINSULATION of 6.7	otek Aupotek Aupotek	Anto
Helk Ar	The protective impedance consists of one or more of the following:	inbotok Anbotek Anb	rak N p
hotak	a) appropriate single component suitable for safety and reliability for protection, it is:	Aupotak Pupater b	N. Anboite
Anbore	RATED twice the maximum WORKING VOLTAGE	Tok Pubolek Vibolek	N. N. A.
Anbot	resistor RATED for twice the power dissipation for maximum WORKING VOLTAGE	nbotek Anbotek Anbotek	N
lak bu	b) combination of components	anbotek Anbo ak	N Make
Polek	Single electronic device not used asPROTECTIVE IMPEDANCE	Anbotek Anbo	AnborN

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Clause	Requirement – Test	Result - Remark	Verdict
6.5.5	Automatic disconnection of the supply	sek anbotek Anbotek	N
Bulgo	a) RATED to disconnect the load within time specified in Figure 2	mbotek Ambotek Ambotek	N N
hotek Ar	b) RATED for the maximum load conditions of the equipment	Anborek Anborek ki	perek N
6.5.6	Current- or voltage-limiting device	k notek Anbotes	And Nok
bus makak	Device complies with all of:	K Malak Autores	bull N
Arrbar	a) RATED to limit the current or voltage to the level of 6.3.2	potek Anbotek Anbotek	N. N.
ich bu	b) RATED for the maximum working voltage; and	sporek Pupose Buy	N Yes
loolek merek	RATED for the maximum operational current if applicable	Aupotek Aupotek Ar	unboteN
Anbalak Anbah	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of SUPPLEMENTARY INSULATION of 6.7	ek Anbotek Anbotek	AT N
6.6	Connections to external circuits	Hotok Anbores Ank	e P
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 Anbotek
PUBL	- the external circuits	ISH AND MEK MIDOVSK	Poor
	- the equipment	poten Anbu tak anbote	P _{Pi} nto
Anb	Protection achieved by separation of circuits; or	Anbotel Anbo tek ab	otek P
otek I	short circuit of separation does not cause a HAZARD	Anbotok Anbotek	nbote ^{ll} P
TUP - ULBK	Instructions or markings for each terminal include:	Aug makey augately	Anbon P
Ame	a) Rated conditions for terminal	Ans otek anborek	MP
Pape	b) Required rating of external circuit insulation	tote, Yun week Pupots	Nath
6.6.2	Terminals for external circuits	unbotes Ann stek and	Jak b
upolok b	TERMINALS which receive a charge from an internal capacitor are not HAZARDOUS LIVE after 10 s of interrupting supply connection	Vupoter Vupoter V	thatek N
6.6.3	Circuits with terminals which are hazardous live	No such hazardous live terminals	PUrnley.
400	These circuits are:	edk _nbotek Anbote	back
Dr.	Not connected to accessible conductive parts; or	Pupo tok wolek Pupo	N
ipotek w	Connected to accessible conductive parts, but are not mains circuits and have one terminal contact at earth potential	Anbotek Anbotek A	Anbotek







Clause	Requirement – Test	Result - Remark	Verdict
Pupoter	And the subotest Augo, or Pole	h Aupoten Pup	anhorek
	No accessible conductive parts are hazardous live	orek Anbotek Anbo	N
6.6.4	Accessible terminals for stranded conductors	worlek Amborek Ambo	ek -
ek on	No RISK of accidental contact because:	on and anbotek and	N
right	Located or shielded	And otek onbolek Ar	N
Anbotek	Self-evident or marked whether or not connected to ACCESSIBLE conductive parts	Ambolek Ambolek	Anbo N
anbotek	ACCESSIBLE TERMINALS will not work loose	tak supplay tubo,	N
6.7 mbatt	Insulation requirements	otek anborek Anbor	- A
6.7.1	The nature of insulation	par supotes Aupon	- do
6.7.1.1	Insulation between ACCESSIBLE parts or between separate circuits consist of CLEARANCES, CREEPAGE DISTANCES and solid insulation if provided as protection against a HAZARD	Anbotek Anbotek Anbotek	anbotek Anbotek
3.7.1.2	Clearances	stelk Anbotak Anboar	Р
DE PULD	Required CLEARANCES reflecting factors of 6.7.1.1	Anbotek Anbotek Anbo	otok P
Aupotek b	Equipment rated for operating altitude greater than 2000 m correction factor of Table 3 of 61010-1 applied	Anbotek Anbotek	unbotek anbotek
6.7.1.3	Creepage distances	ok bupon A motek	Poole
k Anbola	Required CLEARANCES reflecting factors of 6.7.1.1	ootek Anborek Anbore	e P _{pril} o
New	CTI material group reflected by requirements	and abotek And	Р
- Va	CTI test performed	Anou. Ak abotek	¹ / _{POLE} P
6.7.1.4	Solid insulation	Mupo, rek spately	N _{GUN}
Anbotek	Required CLEARANCES reflectingfactors of 6.7.1.1	stek Anbotek Anbotek	None
6.7.1.5	Requirements for insulation according to type of circuit	Inpotek Pubotek Pubo	July B
ter as	a) In 6.7.2 for mains circuits of overvoltage category II with a nominal supply voltage up to 300V	Aupotek Vupotek V	ibotek Anbotek
Anbore	b) In 6.7.3 for secondary circuits separated from the circuits in a) only by means of a transformer	rek anbotek Anbotek	An Pares
Anbot	c) In K.1 for mains circuits of overvoltage category III or IV or for overvoltage category II over 300V	mbotek Ambotek Ambote	N N
iek Ari	d) In K.2 for secondary circuits separated from the circuits in c) only by means of a transformer	Anborok Anborok Ar	pohék P
Do.	e) In K.3 for circuits that have one or more of:	Auto, K Polek	Modole N

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Clause	Requirement – Test	Result - Remark	Verdict
Pupp	hotek propor	Bulga Aportok	Aupolo
	maximum TRANSIENT OVERVOLTAGE is limited to known level below the level of MAINS CIRCUIT	sterk Amborek Amborek	N Anbo
tek hul	maximum TRANSIENT OVERVOLTAGE above the level of MAINS CIRCUIT	Anbotek Anbotek An	potek N
vupotek loo,	WORKING VOLTAGE is the sum of more than one circuit or a mixed voltage	Anbolek Anbolek	AnborN Hotek
Anborek	WORKING VOLTAGE includes recurring peak voltage, may include non-sinusoidal or non-periodic waveform	hotek Anborok Anborok	N Arribot
ek bup	5) WORKING VOLTAGE with a frequency above 30 kHz	Anborek Anborek Anb	potek N
6.7.2	Insulation for mains circuits of overvoltage II with a nominal supply voltage up to 300V	tuporek tuporek	anboten Kotek
6.7.2.1	CLEARANCES and CREEPAGE DISTANCES	ok polek Aupole	P at
hate)	Values for MAINS CIRCUITS of table 4 are met	ank motels Anbores	Р
e Aup.	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	Popper Victorial	otek P An
6.7.2.2	Solid insulation	"potek Bupon A	- N
6.7.2.2.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	ek Aupotek Vupotek	Anbon
pupoley no	Equipment passed voltage tests of 6.8.3 with values of Table 5	botek Anborek Anbore	N POOR
Pillo	Complies as applicable:	Anboro Anb	N I
ores pr	a) ENCLOSUREor PROTECTIVE BARRIER Clause8	Anborek Anborek	nbotek N
Anbotek	b) moulded and potted parts requirements of 6.7.2.2.2	k Anbotek Anbotes	Anborel
Anbois	c) inner layers of printed wiring boards requirements of 6.7.2.2.3	otek Anborek Amborel	Nanb
la Mas	d) thin-film insulation requirements of 6.7.2.2.4	rupo rek upotek Aup	N
6.7.2.2.2	Moulded and potted parts	pupper applex b	N
Anborek Latek	Conductors between same two layers are separated by at least 0,4 mm after moulding is completed	Anborak Anborak	Anbotel
6.7.2.2.3	Inner insulation layers of printed wiring boards	ole Aur otek subotek	Napa
ok And	Separated by at least 0,4 mm between same two layers	ntoolek Anbotek Anbo	ek N k
botek	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	Amborek Ambores Ar	N





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Clause	Requirement – Test	Result - Remark	Verdict
Jiause	Requirement – Test	Result - Remark	verdict
An botek	a) thickness at least 0,4 mm	ank abotek Anbotek	N
ek anbo	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	nborek Anborek Anborek	ek N
potak Anbotak	c) insulation is assembled of minimum two separate layers, where the combination is rated for test voltage of Table 5 for REINFORCED INSULATION	Anbotek Anbotek Anbotek	Anborek Anborek
5.7.2.2.4	Thin-film insulation	ten Auponek	Napo
k bus	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES	Anbotek Anbotek Anbo	octok N bu
abotek	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	Puparek Vuparek	unboren Hotek
abalak	a) thickness at least 0,4 mm	ek polek bipole	N
porbate anb	b) insulation is assembled of min two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	botek Anbotek Anbot	N And
nbatak nbatak	c) insulation is assembled of min three separate layers, where the combination of two layers passed voltage tests of 6.8.3 with values of Table 5 for REINFORCED INSULATION	Anbotek Anbotek An	anbotek Anbotek
5.7.3	Insulation for secondeary circuits derived from mains circuits of overvoltage II with a nominal supply voltage up to 300V	potek Anbotek Anbotek	N of
5.7.3.1	Secondary circuits where separation from MAINS CIRCUITS is achieved by a transformer providing:	Antonois Antonoisek Ant	stek N
Yatar	- REINFORCED INSULATION	Ann Motek Anbotek	N
-otek	- DOUBLE INSULATION	r motely autolety	N N
Anbotek	- screen connected to the PROTECTIVE CONDUCTOR TERMINAL	orek Anbotek Anbotek	N ^A
5.7.3.2	CLEARANCES	worldy bupoles the	e P
palak M	a) meet the values of Table 6 for BASIC INSULATION and SUPPLEMENTARY INSULATION; or	Ambotek Anbotek And	ibatek P
Anbatek Astak	twice the values of Table 6 for REINFORCED INSULATION	Aupotak bupotak	Anborel Anborel
Anbo	b) pass the voltage tests of 6.8 with values of Table 6; with following adjustments:	morek amberek anberek	P _O pt
ak ari	1) values forREINFORCED INSULATION are 1,6 times the values for BASIC INSULATION	metel anbotek anbo	_M P





Clause	Requirement – Test	Result - Remark	Verdict
Clause	Requirement – rest	Nesuit - Nemaik	Verdict
Anbotek Anbotek	if operating altitude is greater than 2000 m values of CLEARANCES multiplied with factor of Table 3	botek Anbotek Anbotek	P Antro
nbotek pr	3) minimum CLEARANCE is 0,2 mm for POLLUTION DEGREE 2 and 0,8 mm for POLLUTION DEGREE 3	Anbotek Anbotek Anbotek A	botek N
6.7.3.3	CREEPAGE DISTANCES	Pupoley, Vupo,	Piek
Anborsk Anborsk	Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY INSULATION	tek Anborek Anborek	Anbol Anbol
rok pri	Values for REINFORCED INSULATION are twice the values of BASIC INSULATION	Anborek Anboren Anbo	potek P
polek .	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	bupa, Mupatek	unboten hotek
6.7.3.4	Solid insulation	ek spolek bupole	N N
6.7.3.4.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	Potek Pupotek Vupot	y N Ant
potek	a) Equipment passed voltage test of 6.8.3.1 for 5 s with VALUES of Table 6 for BASIC and SUPPLEMENTARY INSULATION	Anbotek Anbotek An	unbotel ^N
Anborek	values for REINFORCED INSULATION are 1,6 times the values of BASIC INSULATION	ely Amborek Amborek	Anbolel Anbolel
otek Anbor	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	nbotek
rupo _{tek}	value for REINFORCED INSULATION are twice the WORKING VOLTAGE	k hotek Anborek	parto N
An Hotek	Complies as applicable:	ank botek Anboren	N
r 100	1) ENCLOSURE or protective barrier Clause 8	on hotek Anbole	N
stak bu	2) moulded and potted parts requirements of 6.7.3.4.2	uppotek Aupotek Aup	N A
nbotak	3) inner layers of printed wiring boards requirements of 6.7.3.4.3	Anbolak Anbolak	Anbo N
PUB.	4) thin-film insulation requirements of 6.7.3.4.4	And stek supplok	N
6.7.3.4.2	Moulded and potted parts	ster Anbu	Nopo
lok bupo	Conductors between same two layers are separated by applicable distancesof Table 8	nborek Anbotek Anbo	ek N ps
6.7.3.4.3	Inner insulation layers of printed wiring boards	Prince Pr	N





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Clause	Requirement – Test	Result - Remark	Verdict
Aupon	tot work Aries to Follow	ak Aupon housek	anhoye.
	Separated by at least by applicable distances of Table 8 between same two layers	otek Anbotes Ano	N
rek An	REINFORCED INSULATION have adequate electric strength; one of following methods used:	nbotek Anbotek Anbo	les N N
notek	a) thickness at least applicable distance of Table 8	Antorek Antores Ar	N
Anbotek Anbotek	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION	rak Anbotak Anbotak	Anborek Anborek
anbot ar	c) insulation is assembled of min two separate layers, where the combination is rated for 1,6 times the test voltage of Table 6	botek Anbotek Anbot	ek N
6.7.3.4.4	Thin-film insulation	Politica Publish Pu	N
Anbotek Anbotek	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES	anborek Anborek	Anbotok Anbotok
habati	REINFORCED INSULATION have adequate electric strength; one of following methods used:	botek Anbotek Anbote	N
PLU VILLE	a) thickness at least applicable distance of Table 8	supotok Pupo, W	otel N
inbatek inbatek	b) insulation is assembled of min two separate layers, each RATEDfor test voltage of Table 6 for BASIC INSULATION	Anbotek Anbotek	unbotel ^k
Aupote	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:	otek Anborek Anborek	N _A nhorr
. old	a.c. test of 6.8.3.1; or	Vupo, ok hotek Hup	N
nbatek	d.c. test of 6.8.3.2 for circuits stressed only by d.c. voltages	Anbotek Anbotek	nborek N
3.8	Procedure for voltage tests	ek Kupotek Aupon	Par Park
6.9 Anborel	Constructional requirements for protection against electric shock	orek Anbotek Anbotek	P
3.9.1	If a failure could cause a HAZARD:	rupotes, Vunn, stek vup.	40h - 1
Val. b.	a) Security of wiring connections	Aupoles Puna	_{ibotale} P
hoisk	b) Screws securing removable covers	Mupoles Wupon Mak	P P
Arborek	c) Accidental loosening	W Vupater Vupa.	Botel
Anborek	d) CREEPAGE and CLEARANCES not reduced below the values of basic insulation by loosening	stek Anbotek Anbotek	P
6.9.2	Material not to be used for safety relevant insulation:	nbotek Anbotek Anbo	ek N Þ
hotek	Easily damaged materials not used	motek Anbotes Ar	N
Yas	Non-impregnated hydroscopic materials not used	Mus alk applets	AOUN N. W



Clause	Requirement – Test	Result - Remark	Verdict
Mupo	motely embories Arrived	Br Anbour Amotek	Pupote.
6.9.3	Colour coding	orak Anbores Ans	V. Noone
Ando	Green-and-yellow insulation shall not be used except:	Anbotek Anbotek Anb	olek - Pup
to by	a) protective earth conductors;	Anbore And Hotek	polek N
100ter	b) protective bonding conductors;	Anbotes Anti-	anbo'N
Anboten	c) potential equilization conductors;	Auphle, Vue	Nex
Anboren	d) functional earth conductors	Mak Aupoleis Muho	N ₁₀₀₁₀
6.10	Connection to mains supply source and connections between parts of equipment	Anbotek Anbotes Anb	Pup.
6.10.1	Mains supply cords	Puposen Pupo	upotek - p
Ooley	Rated for maximum equipment current	Aupotes Aupo	anbotek P
pupoles	Cable complies with IEC 60227 or IEC 60245	Aupotes Aupo	nbP ^{®k}
anbatal	Heat-resistant if likely to contact hot parts	olek anbotek Anbos	Nootek
modes	Temperature rating (cord and inlet)	otak Anbotak Anbos	K N
sk Ant	Green-and-yellow used only for connection to protective conductor terminals	Anbotok Anbotek Anu	thotok P
opotek.	Detachable cords with IEC 60320 mains connectors:	Anbotek Anbotek	unbotek
-patek	Conform to IEC 60799; or	lak abotek Anbote	N orek
Pole	Have the current rating of the mains connector	wh polek pupores	N
6.10.2	Fitting of non-detachable mains supply cords	upon him holisk Aupol	- POD
6.10.2.1	Cord entry	Aupoto Au	opten - bu
O. 1	Inlet or bushing smoothly rounded; or	Anborn K Hotek	antonet N
inpose.	Insulated cord guard protruding >5D	Pupotes, Pup.	amb N
6.10.2.2	Cord anchorage:	IN Aupolan Aug	PILE OLSK
PUPOLE,	Protective earth conductor is the last to take the strain	hotek Anbount Anbot	N _{Mbot}
Hak bu	a) Cord is not clamped by direct pressure from a screw	rupotek Pupotek Wy	parak N An
abotak	b) Knots are not used	Anborok Anboro	N
Anbotek	c) Cannot push the cord into the equipment to cause a hazard	We William Well Williams	Anburek
Anbo	d) No failure of cord insulation in anchorage with metal parts	polek Wilhotsk Wilhots	Nopou
rok Ner	e) Not to be loosened without a tool	antek anbotek ant	N N
- 2	f) Cord replacement does not cause a HAZARD	bus of Paley	N





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Clause	Requirement – Test	Result - Remark	Verdict
Clause	Trequirement – Test	Tresuit - Itemark	Verdict
Ph. Potek	Push-pull and or torque test	ok polek Vupolek	N of
6.10.3	Plugs and connectors	ore and bolek anbotes	- PUOD -
tek bu	Mains supply plugs, connectors etc., conform with relevant specifications	anbotek Anbotek Anbo	optek N
ipotek Material	If equipment supplied at voltages below 6.3.2.a) or from a sole source:	Aupotek Aupotek	Anbo'N
Anbotek	Plugs of supply cords do not fit mains sockets above rated supply voltage	lek Wipolak Wipoles	Anbote Anbote
ak Anbai	MAINS-type plugs used only for connection to MAINS supply	Potek Vuporek Vupo,	of N period
polek F	Plug pins which receive a charge from an internal capacitor	Anbotek Anbotek An	obotak Johannia
anbotek	Accessory MAINS socket outlets:	enborek Anbo.	N ell
Anbalok	a) Marking if accepts a standardMAINSplug (see 5.1.3e)	ak Anbotek Anbotek	N N Anborel
ar Ant	b) Input has a protective earth conductor if outlet has EARTH TERMINAL CONTACT	bores Anbotek Anbot	N Amb
6.11	Disconnection from supply source	by Potek Bupoten Au	, edi-
6.11.1	Disconnects all current carrying conductors	All Motok Anboton	rupo.
6.11.2	Exceptions	w work Anbotek	Anbo.
6.11.3	Requirements according to type of equipment	E Pulek Bupokey	₽Upp.
6.11.3.1	Permanently connected equipment and multi- phase equipment	poter Anbotek Anbote	Nada _o
otel.	Employs switch or circuit-breaker	andrek Aubole, Aug	N _{New} N
inbotek -k	If switch or circuit-breaker is not part of the equipment, documentation requires:	Anbotek Anbotek	upo _{tek}
Anboro	a) Switch or circuit-breaker must be included in the installation	k Auponek Auponek	AIN OFFEE
4 - 50	b) Suitable location easily reached	rek abotek popoli	N
-ak	c) Marking as disconnecting for the equipment	unbo ok abotek Anbr	N Br
6.11.3.2	Single-phase cord-connected equipment	Pupo, ok Postek V	ipole -
upo.	Equipment is provided with:	Pupour Mary Polak	Pupoje,
Anban	a) Switch or circuit-breaker; or	water majer	PL Notes
Alpoid	b) Appliance coupler (disconnectable without tool);	olek Bupater, burn	Napot
PUPO	c) Separable plug (without locking device)	apolok Auporan Auporan	el ^e N _{see}
6.11.4	Disconnecting devices	trafel Anborat Anho	46h
-tek	Electrically close to the SUPPLY	rek about M	N





	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
6.11.4.1	Switches and circuit-breakers	ank abotek Antostek	N
60.	When used as disconnection device:	Die William William	N
re/r	Meets IEC 60947-1 and IEC 60947-3	tak apolek bup.	N
iak po	Marked to indicate function:	August Pr	N
la of	Not incorporated in MAINS cord	Anton at storak	Anboras
Anbotek	Does not interrupt PROTECTIVE EARTH CONDUCTOR	rek Anborok Anborok	N
6.11.4.2	Appliance couplers and plugs	Lotek Anborek Anbor	9/4
ok pr	Where an appliance coupler or separable plug is used as the disconnecting device (see 6.11.3.2):	Anborek Anborek Anbo	potek -
potek	Readily identifiable and easily reached by the operator	Amborek Amborek	AnboreN .
Anbalak	Single-phase portable equipment cord length not more than 3 m	lek Ambalek Ambalek	Anbor
y kupa,	Protective earth conductor connected first and disconnected last	potek Anborek Arbor	W N pm
rak	nbotek Anbote Anbotes	And tek abotek An	30/-
7	Protection against mechanical hazards	Anto	" - nogur
7.1 Anbahek	Equipment does not cause a mechanical HAZARD in NORMAL nor in SINGLE FAULT CONDITION	ek Anbotek Anbotek	Anbole Anbole
Pun	Conformity is checked by 7.2 to 7.7	Jose Ann Polick Publisher	Page
7.2	Sharp edges	Anboto Ant antek ant	otek P
Oles I	Easily-touched parts are smooth and rounded	Anboro Ann	nbolekP
upoten	Do not cause an injury in normal use and	Pupoter, Turn	anboP ^{jk}
Aupoles	Do not cause an injury in single fault condition	k Pupojer Vun	Potel
7.3 Anbote	Moving parts	otek Anbotek Anbo	- no
7.3.1	HAZARDS from moving parts limited to a tolerable level with the conditions specified in 7.3.2 and 7.3.5	inbotek Anbotek Anbo	not N
nbotok	RISK assessment in accordance with 7.3.3 carried out	Anbotek Anbonek A	Artboi N
7.3.2	Exceptions:	V Aubose Kan Majak	Anhotel
Anborer	Access to HAZARDOUS moving parts permitted under following circumstances:	otek Pupater Busatek	Nopo
la _k by	a) obviously intended to operate on parts or materials outside of the equipment	Amborek Ambotek Ambo	potek N
potek	inadvertent touching of moving parts minimized by equipment design (e .g. guards or handles)	Anborek Anborek	Anbo N

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Clause	Requirement – Test	Result - Remark	Verdict
Ciause	Nequilement – Test	Tresuit - Itemark	verdict
Anbotek	b) If operator access is unavoidable outside normal use following precautions have been taken:	otek Anbotek Anbotek	N Antro
tek bi	1) Access requires TOOL	Hotek Pupoley Vup	N N
wotak	2) Statement about training in the instructions	notek Anborek Ar	N
Anbotek	Warning markings on covers prohibiting access by untrained operators	Anbolek Aubolek	Anto Nek
Aupola	or symbol 14 with full details in documentation	tek Aupon a work	Nag
7.3.3	Risk assessment for mechanical HAZARDS to body parts	potek Anborek Anbor	ek N pr
ootek P	RISK is reduced to a tolerable level by protective measures as specified in Table 12	Anbotek Anbotek An	n shotak
amborek	Minimum protective measures:	enborek Anbo	N
anbalak	A. Low level measures	ek propotek Anbor	N
nbott	B. Moderate measures	otek Anbotek Anbo	N
N AN	C. Stringent measures	stek subotek Anbo	N
7.3.4	Limitation of force and pressure	Anbotek Ant	N
anbotek Ju	Following levels are met in normal and single fault condition:	Anborok Anborok	unbotek
Anbotek	Continuous contact pressure below 50 N / cm² with force below 150 N	ok Anborek Anborek	Nore
k kup	Temporary force below 250 N for an area at least of 3 cm² for a maximum duration of 0,75 s	note Ambotek Anbote	Nachb Stelk
7.3.5	Gap limitations between moving parts	abotek Anbote Ant	under N
7.3.5.1	Access normally allowed	abotek Anboter	N
	If levels of 7.3.4 exceeded and body part may be inserted minimum gap as specified in Table 13 assured in NORMAL and in SINGLE FAULT CONDITION	otek Anbotek Anbotek	Anborel
7.3.5.2	Access normally prevented	inputer burn.	TOY N P
Hele by	Maximum gap as specified in Table 14 assured in NORMAL and in SINGLE FAULT CONDITION	Pupotes, Pupotek V	ipatek N
7.4	Stability	Ann agek anbotek	Pupper-
Ambatek	Equipment not secured to the building structure is physical stable	otek Ambotek Ambotek	PUB.
PLIPO,	Stability maintained after opening of drawers, etc. by automatic means, or	nborek Anborek Anbo	ek N
-otek bi	Warning marking requires the application of means	Anbor Ankorek Ar	Poles N

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Clause	Requirement – Test	Result - Remark	Verdict
Clause	Requirement – Test	Nesuit - Nemark	Verdict
pribotel	Compliance checked by following tests as applicable:	ootek Anbotek Anbotek	Pupo
Pulp	a) 10° tilt test for other than handheld equipment	inbotes Ann stek entr	N M
Potek V.	b) multi-directional force test for equipment exceeds height of 1 m and mass of 25 kg	Anbotek Anbotek k	potek N
Anbotek	c) downward force test for floor-standing equipment	Antoglek Antoglek	Antonek
Aupor	d) overload test with 4 times maximum load for castor or support that supports greatest load	otek Anborek Anborek	N
ok pr	e) castor or support that supports greatest load removed from equipment	anbotek Anbotek Anbo	potek N ^{pri}
7.5	Provisions for lifting and carrying	eupotek Pupp, Vi	Newport
7.5.1	Equipment more than 18 kg:	k suppley Aupon	New
* apalok	Has means for lifting or carrying; or	ak anbotek Anbote	N
-abat	Directions in documentation	tek sabotek Anbote	N
7.5.2	Handles or grips	tok upotek Aupo,	P
rak	Handles or grips withstand four times weight	Anba tek abotek An	Р
7.5.3	Lifting devices and supporting parts	Allbo, tok upotek	Mario N
YUPO,	Rated for maximum load; or	Anko ak abotek	part N
PUBO	tested with four times maximum static load	How Pupo, My Modely	None
7.6	Wall mounting	hotel Anbounds hotel	4019 A
k but	Mounting brackets withstand four times weight	supplet Bupons bus	otek N
7.7	Expelled parts	Pupolok Mupous Hun	hotek-
nborek	Equipment contains or limits the energy	anbotek Anbote	N
Mator	Protection not removable without the aid of a tool	k kojek Aupora	N

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8	Resistance to mechanical stresses	no rak anbotek Anbo	-n-
8.1	Equipment does not cause a hazard when subjected to mechanical stresses in normal use	anbotek Anbotek Anbe	trotele P
upo, ok	Normal protection level is 5J	Considered 5J	P ^F
Anborek Gr.	Levels below 5 J but not less than 1 J are acceptable if all the following criteria are met	to, Wupater Wupator	PL Nyek
PUPO	a) lower level be justified by manufacturer	ipoley Wyon eak upolek	Napa
ak Ano	b) cannot easily be touched by unauthorzed persons or the general public	intotok Anto	ek N pri
- N	c) only occasional access during NORMAL USE	Anbar Ak katek Ar	Poles. N





Clause	Requirement – Test	Result - Remark	Verdict
Clause	Requirement – Test	Result - Remark	Verdict
Dur	d) IK code in accordance to IEC 62262 marked	P. Mark Modek	N
Pupp	or symbol 14 used with full information in the documentation	boten Anborek Anborel	ale Andro
	For non-metallic ENCLOSURES rated below 2 °C ambient temperature value chosen for minimum rated temperature	Aupotek Pupotek William	polek N M
po, potek	Impact energies between IK values, the IK code marked for nearest lower value	Anbor Anborek	Anbo'N
Annapotek	Conformity is checked by performing following tests:	rak upolak kupolak	pupo.
	1) the static test of 8.2.1	tak abotek Anbote	Р
ok bu	2) impact test of 8.2.2 with 5J except for handheld equipment	Anborek Anborek Anbo	-tok B bu
polek	If impact energy not selected to 5J alternate method of IEC 62262 used	Ann Anbotek Anbotek Ar	Potak N
hnbotek	3) drop test of 8.3.1 or 8.3.2 except for fixed and equipment with mass over 100kg	Anbotek Anbot	Bo Pak
Pupajo,	Equipment rated with an impact rating of lk 08 by that clearly meets the criteria	olek Anbote Anmotek	Noor
	After the tests inspection with following results:	porer And	OK - BUIL
or Mulo	- Hazardous live parts above the limits of 6.3.2 not accessible	Aupotok Aupo, Watek Wu	potek N
	- insulation pass the voltage tests of 6.8	Anbore Ann Mak	N ^{atodio} N
inpole.	i) no leaks of corrosive and harmful substances	K Anboros Anb	Pak Pak
VUP OVER	ii) Enclosure shows no cracks resulting in hazard	Helt ambotes Ambo	Pore
pupole	iii) CLEARANCES not less than their permitted values	nbotek Anbotek Anbot	P Anh
W Mup	iv) the insulation of internal wiring remains undamaged;	Anbotek Anbo	otek P
ofe A	V) Protective barriers necessary for safety have not been damaged or loosened	Aupotek Vupotek	anbote ^t N
Alefodin A	vi) No moving parts exposed, except permitted by 7.3	Anbatek Anbatek	AmbeN morel
Motel Hotel	vii) no damage which could cause spread of fire	ak botok Anboto	ÞΡ
3.2	Enclosure rigidity tests	Ho, we whotek Wupole	Panta
3.2.1	Static test	unboil A work and	P A
No. By	- 30N with 12mm rod to each part of enclosure	Pupole M. Olek	ipoleje P
bolok	- in case of doubt test conducted at maximum rated ambient temperature	Anborek Anborek	Anbo N
8.2.2	Impact test	Applied to enclosure with acceptable results	Anbo
pupo	Impact applied to any part of enclosure causing a hazard if damaged	Pupoley Pupoles Pupo	ek P pr



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- No.	EN 61010-1	Anto wk morak Ar	por
Clause	Requirement – Test	Result - Remark	Verdict
Aupor	they was been bused on the most	er anbott Att	anhore
	Non-metallic enclosure cooled to minimum rated ambient temperature if below $2^\circ\!\mathrm{C}$	optek Anbotek Anbotek	Panbot
8.3	Drop test	tupo, w wotek tupo	N AM
8.3.1	Equipment other than HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	Anbolek Anbolek An	patel ^k N
wotek.	Test conducted with a drop height or angle of:	A wolek anboten	Amb Nek
8.3.2	HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	nek Anbotek Anbotes	Pub.

Non-metallic ENCLOSURES cooled to minimum

RATED ambient temperature if below 2 °C Drop test conducted with an height of 1 m

9 pole	Protection against the spread of fire		- upchak
9.1	No spread of fire in normal and single fault condition	lek Anbotek Anbotek	Panhorek
ak bur	Mains supplied equipment meets requirement of 9.6 additionally	porter Aupoteix Aupot	N And
jotek ak	Conformity for each source of HAZARD or area of the equipment is checked by one of the following:	Anbotek Anbotek An	P
Vupor.	a) Fault test of 4.4; or	Aupon ok Potek	ant P
Aupole	b) Application of 9.2 (eliminating or reducing the sources of ignition); or	otek Anborek Anborek	Notes
y Rot	c) Application of 9.3 (containment of fire within the equipment)	anbotek Anbotek Anbot	orek P ^{AN}
9.2	Eliminating or reducing the sources of ignition within the equipment	Anborok Anborok	upotek_
Tub.	a) 1) Limited-energy circuit (see 9.4); or	tunn notek supotek	Amba N
Anbote	Insulation meets the requirements for BASIC INSULATION; OR	orek Anbotek Anbotek	N Ambori
anb.	Bridging the insulation does not cause ignition	hotek Aupore, Mun	ok N not
Hak P	b) Any ignition HAZARD related to flammable liquids (see 9.5)	No liquids used	ibotak N
upo,	c) No ignition in circuits designed to produce heat	Pupo, y Pup	ALL DO LET
9.3	Containment of the fire within the equipment, should it occur	Tek apatek Vapatek	Number.
Antor	a) Energizing of the equipment is controlled by an operator held switch	Hotek Anbotek Anbotek	ek N
tek A	b) ENCLOSURE is conform with constructional requirements of 9.3.1; and	Amborek Amborek Ar	pořek P
lo-	Requirements of 9.5 are met	And ak aborek	Anborn N





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Clause	Requirement – Test	Result - Remark	Verdict
Clause	Requirement – Test	Result - Remark	verdict
9.3.1	Constructional requirements	rek anbotek Anboten	Pup.
rek Anbo	a) Connectors and insulating material have flammability classification V-2 or better	Fire enclosure is made of metal and plastic flame rated V-0	rek P Ar
botek	b) Insulated wires and cables are flame retardant (VW-1 or equivalent)	Arbotek Anbone Ar	Anborte
Aupon	c) ENCLOSURE meets following requirements:	Antions k kofak	pul Pres
Anbora	1) Bottom and sides in arc of 5 ° (see Figure 13) to non-limited circuits (9.4) meets:	tek Anborok Anborok	Nago
ale a	i) no openings; or	upon ask upotek Pupon	P
-alt	ii) perforated as specified in Table 16; or	Antion And abotek An	N
16% 201	iii) metal screen with a mesh; or	bulga, tak apolek	NaporeN
Anbon	iv) baffles as specified in Figure 12	Anbo ak abotak	AND
Anbar abat	Material of ENCLOSURE and any baffle or flame barrier is made of:	Fire enclosure is made of plastic flame rated V-0	Pool
F 60	Metal (except magnesium); or	In stok supotek Vupos	N
otok	Non-metallic materials have flammability classification V-1 or better	Antorek Antorek Ant	P
inbotek.	ENCLOSURE and any baffle or flame barrier have adequate rigidity	Anboros Anborek	Anto Pak
0.4	Limited-energy circuit	And hotek Anborek	VUPP.
Ant	a) Potential not more than 30 r.m.s. and 42.4 V peak, or 60 V dc	sole Andolek Andole	NA:O
legk.	b) Current limited by one of following means:	abotok Anbote And	-otek-
-botek	1) Inherently or by impedance;	aborek Anbore	N
-hotel	2) Over current protective device;	K Potek Aupoten	N N
Anbotel	A regulating network limits also in SINGLE FAULT CONDITION	otek Anbotek Anbotek	A'N Amb
p.nb	c) Is separated by at least BASIC INSULATION	abotek Antone Anto	net N
iak b	Fuse or a nonadjustable electromechanical device is used	Pupotok Pupotok Vin	Potsk-
).5	Requirements for equipment containing or using flammable liquids	No flammable liquids used	Artho N
Anbotek	Flammable liquids contained in or specified for use with equipment do not cause spread of fire	otek Anbotek Anbotek	N
Pupo	Risk is reduced to a tolerable level :	upolok bupo, by	ek - p
atek at	a) The temperature of surface or parts in contact with flammable liquids is 25 °C below fire point	Anborek Anborek An	poték N
aw.	b) The quantity of liquid is limited	No such liquid used	Anbotel N v

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Clause	Requirement – Test	Result - Remark	Verdict
Aupor	the repaired the real	ek anbot An Hek	anbores
anbote	c) Flames are contained within the equipment	antotek Antotek Anto	N
- anto	Detailed instructions for risk-reduction provided	Lorek Anborek Anbo	N
9.6	Overcurrent protection	lon atek supples supp	N
9.6.1	Mains supplied equipment protected	And otek onbotek Ar	N
Aupotek un	Basic insulation between mains parts of opposite polarity provided	Antolek Antolek	Anborek
Anboren	Devices not in the protective conductor	tek Aupoles Aupoles	Neore
to purpo	Fuses or single pole circuit-breakers not fitted in neutral (multi-phase)	A lbotek Anbotek Anbo	ak N
9.6.2	Permanently connected equipment	Anbone Ane ofek an	poter N
pole	Overcurrent device:	Wipales Pupp	unboteN
Vupole,	Fitted within the equipment; or	Andores Anto	No Non
p.nbotol	Specified in manufacturer's instructions	olek Aupoles Misse	Noone
9.6.3	Other equipment	potek Anbotek Anbo	k N
ok no	Protection within the equipment	wholey Wuboley Wubo.	N N

10	Equipment temperature limits and resistance to	heat	TUN.
10.1	Surface temperature limits for protection against burns	ek Anbotek Anbotek	Anbore
hupole	Easily touched surfaces within the limits in NORMAL and in SINGLE FAULT CONDITION:	(see appended table)	· P _{pot} b
Par.	- at an specified ambient temperature of 40 °C	Antonia alk stortek Anti	N
inpotek	- for equipment rated above 40 °C ambient temperature limits not exceeded raised by the difference to 40 °C	Anbotek Anbotek	nbotek Anbotek
Anbotel	Heated surfaces necessary for functional reasons exceeding specified values:	orek Anbotek Anbotek	Vapor.
r Pupi	Are recognizable as such by appearance or function; or	upotek hupomi Aupo	N P
Page B	Are marked with symbol 13	Aupole Aur Potek	ma _{tell} N
Upolis.	Guards are not removable without TOOL	Ambore Amb	N°dma
10.2	Temperatures of windings	W Aupons Nur Work	Anto-dell
Antiques	Limits not exceeded in:	ptek Anboter Anb	20,00
Anbo	NORMAL CONDITION	Hotek Aupores Aum	P P
rol-	SINGLE FAULT CONDITION	Hatak Anbotek Anco	Jek P
10.3	Other temperature measurements	(see appended table)	P
on thon A	Following measurements conducted if applicable:	Motek Anbotek	Anbo

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Clause	Requirement – Test	Result - Remark	Verdict
- upotek	Anto A solet Antotes Anto	h auporak kupar	by, word
Pupotek	a) Value of 60 °C of field-wiring terminal box not exceeded	stek Pupolek Vupoje,	N
Rupov	b) Surface of flammable liquids and parts in contact with this liquids	Thorek Ambolic Arthr	ek N
	c) Surface of non-metallic enclosures	Anbola And	polek P
laote _k	d) Parts made of insulating material supporting parts connected to mains supply	Anboret Anthorek	AnborN'
10.4	Conduct of temperature test	Auto, or botak	pul Pres
10.4.1	Tests conducted under reference test conditions and manufacturer's instructions	nek Anbonnek Anbotek	Pubo
10.4.2	Temperature measurement of heating equipment	spoke, Mun stek rupo,	BA N PL
Dur Pus	Tests conducted in test corner	Puboles, bup.	potek N
10.4.3	Equipment intended for installation in a cabinet or wall	Aupotes Augusta	Notochna knochna
Anbo,	Equipment built in as specified in installation instructions	Aubo, Wolek Wilholek	Brick
10.5	Resistance to heat	Anbotek Anbotek	Р
10.5.1	Integrity of CLEARANCE and CREEPAGE DISTANCES	bote Anbotek Anbot	otek Pan
10.5.2	Non-metallic ENCLOSURES	potek Anboter An	P
- Nefek	Within 10 min after treatment:	Anborest Anborest	Pak Pak
10.5.3	Insulating material	Anno otek Anbotek	ATTO P
Anbolek	a) Parts supporting parts connected to MAINS supply	potek Anbotek Anbotek	P Poor
k Pupo	b) TERMINALS carrying a current more than 0.5 A	Hotels Vapour Vine	aek P
na Nato	Examination of material data; or	horak Anborek Ant	P
Kofek	in case of doubt::	Polek Pupolek	Lipo,
-otek	1) Ball pressure test; or	w workey autorial	Pub P
Prior	2) Vicat softening testof ISO 306	Mary Mark	P

11	Protection against hazards from fluids		Jan - Bur
11.1	Protection to OPERATORS and surrounding area provided by EQUIPMENT	Pupoley Vupoley V	ipatel ^k N
abotek	All fluids specified by manufacturer considered	a apolek pupora	N _{sek}
11.2	Cleaning	rek spotek tupoten	N Mela
11.3	Spillage	orth abotek anbore.	N
11.4	Overflow	upon of business pupo	N beam
11.5	Battery electrolyte	Anbore Are borek Ar	Doles - P
Upole K	Battery electrolyte leakage presents no hazard	Anbore An horek	Anboth





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J. Ven	EN 61010-1	Anto Yak Anotak A	upolo
Clause	Requirement – Test	Result - Remark	Verdict
Pupore	busy supplies busy	er Bupon Pur Hek	adhorek
11.6	Specially protected equipment	otek Anbotek Anbo	N
11.7	Fluid pressure and leakage	Lotek Anborek Anbo	ek -
11.7.1	Maximum pressure	turn ottek supolek trop	ak h
botek	Maximum pressure of any part does not exceed $P_{\mathtt{RATED}}$	Antotek Anbotek Ar	N anbotek
11.7.2	Leakage and rupture at high pressure	Anbole, Ano	Niek
Pupoley	Fluid containing parts subjected to hydraulic test if:	where Anboran Amborek	N
ely by	a) product of pressure and volume > 200 kPal; and	a aborek anborek anbor	N An
orek	b) pressure > 50 kPa	abotek Anbore An	_{Goto} N
anbolek anbolek	Parts of refrigerating systems meets pressure- related requirements of IEC 60335-24 or IEC 60335-24	Anbotek Anbotek	Anborek Anborek
11.7.3	Leakage from low-pressure parts	stek Anbotek Anbo	N
11.7.4	Overpressure safety device	Tok subotek Anbo	- box
You	Does not operate in NORMAL USE	Anbourek and Ant	N
anbotek.	a) Connected as close as possible to parts intended to be protected	Anbotek Anbotek	knipot N
Anborek	b) Easy access for inspection, maintenance and repair	sek Anborek Anborek	Nord
been	c) Adjustment only with TOOL	note Ann otak anbote	Namb
YU.	d) No discharge towards person	Pupote, Mun	otek N P
J. E.	e) No HAZARD from deposit of discharged material	Anboros Anb	nbotek N
upotek	f) Adequate discharge capacity	Anbores Anbo	nboN ^M
Aupotek	No shut-off valve between overpressure safety device and protected parts	Auporek Auporek	Nortel
-			

12 And	Protection against radiation, including laser sources, and against sonic and ultrasonic pressure		rak - Ant
12.1	Equipment provides protection	Ambotel Anbotel A	N
12.2	Equipment producing ionizing radiation	Arrivately Arribotaly	Ambo N .esk
12.2.1	Ionizing radiation	K copy cupolog	PN
12.2.1.1	Equipment meets the following requirements:	ole, Vinney eupotek	Napas
orek An	a) if intended to emit radiation meets requirements of 12.2.1.2; or	nbotek Anbotek Anbo	ek N kup
nbotek	tested, classified and marked in accordance to IEC 60405	Anborek Anborek Ar	AnboteN





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Clause	Requirement – Test	Result - Remark	Verdict
p.nbotek	b) if only emits stray radiation meets requirements of 12.2.1.3	otek Anbotek Anbotek	N
12.2.1.2	Equipment intended to emit radiation	upotek hupo, tek upo	lest N M
te _k VL	Effective dose rate of radiation measured:	supplies Aupo, tok	oolek N
potek potek	If dose rate exceeds 5 μSv/h marked with the following:	Anborek Anborek	Anbo'N
Pur.	a) Symbol 17 (ISO 361)	k puek aupoten	Pub.N
Diag.	b) Abbreviations of the radionuclides:	The Alex Puppler	N
brigge	c) With maximum dose at 1 m;or	Anto Anto	N PC
polek bu	with dose rate value between 1 μSv/h and 5 μSv/h in m	Anborek Anborek An	ootek N
12.2.1.3	Equipment not intended to emit radiation	Motek Pupotes	Nek
Pupalok	Limit for unintended stray radiation of 1 µSv/h at any easily reached point kept	lek Anbotek Anbotek	Anbor Anbor
12.2.2	Accelerated electrons	Potek Pupote We Pot	W N part
it blut	Compartments opened only by the use of aTOOL	anbotok Anboton And	N Vote
12.3	Ultra-violet (UV) radiation	Conformity test under consideration	-Yatoday
anbotek.	No unintentional and HAZARDOUS escape of UV radiation:	ok Anbotek Anbotek	ATTO N
pupole,	- checked by inspection; and	stell suborek Anbor	N
- ab	- evaluation ofRISKassessment documentation	Helk upotek Aupon	N
12.4	Microwave radiation	August August Aug	V
181	Power density does not exceed 10 W/m ² :	Aupolek Polisk	N.
12.5	Sonic and ultrasonic pressure	hupon botek	Vupojen.
12.5.1	Sound level	the Pupper Plantek	N
Pupan	No HAZARDOUS sound emission	otek Anbout Antotal	Nanb
tek Arbi	Maximum sound pressure level measured and calculated for maximum sound power level as specified in ISO 3746 or ISO 9614-1	upotek Aupotek Aup	half N p
100,000	Instruction describes measures for protection	Mupoles Wash	Nodra
12.5.2	Ultrasonic pressure	e Aupones auto	Nates
Anbotes	Equipment not intended to emit ultrasound does not exceed limit of 110 dB between 20 kHz and 100 kHz	stek Anbotek Anbotek	N proba
lek bu	Equipment intended to emit ultrasound:	Laboret Anbors Anti	and N
potek	Outside useful beam does not exceed limit of 110 dB between 20 kHz and 100 kHz	Anbotek Anbotek Al	AnborN





Norm	Those by	Diego Diego	Late.
Clause	Requirement – Test	Result - Remark	Verdict
Pupo	they exposed busy	ak anboy her her	-upore
anbote!	If inside useful beam above values exceeded:	otek anbotek Anbo	N
anto	Marked with Symbol 14 of Table 1	Lotek Anbovek Anbo	N
ek ,	and following information in the documentation:	tun atek eupotek vupo	N
rak	a) dimensions of useful beam	And stek anbotek Ar	N
ou sele	b) area where ultrasonic pressure exceed 110 dB	Anbu tak anbotak	Anba'N
Vupo,	c) maximum sound pressure inside beam area	Anbo sak abatak	par N
2.6	Laser sources	otek Anbo. A. bolek	Nag
Anbo	Equipment meets requirements of IEC 60825-1	potek Antonia Antonia	e ^X N _×

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13	Protection against liberated gases, explosion a	nd implosion	abotok
13.1	Poisonous and injurious gases and substances	No injurious gases	Nek
Anbalak	No poisonous or injurious gases or substances liberated in NORMAL CONDITION	lek Anbotek Anbotek	Natel
Pulp	Attached data/test reports demonstrate conformity	pores Andrew Andrew	N Manb
13.2	Explosion and implosion	Aupotes Aur Tak	otek - P
13.2.1	Components	Anborer Anb	upotek.
Aupoley	Components liable to explode:	Pupoter Vup.	* nbotck
AUDOVER	Pressure release device provided; or	ak antonen Anton	Note
hupole	Apparatus incorporates OPERATOR protection (see also 7.7)	botek Anborek Anbore	N Pubo
P.U.	Pressure release device:	Anboro And Lotek and	otek by
Ole. I	Discharge without danger	Anboro Ann	nbotell
TUP DIE	Cannot be obstructed	Pupose, Tup	N
13.2.2	Batteries and battery charging	k Pupole, Vun	Anporak
Anbois	If explosion or fire hazard could occur:	otek Anbotes Anb	- 000
k anbi	Protection incorporated in the equipment; or	notek Anbotek Anbo	N N
otel ^k p	Instructions specify batteries with built-in protection	Aupotek Aupotes Aup	ibatek N
upolo	In case of wrong type of battery used:	Aupolio K Worldk	anbolek
Vupole.	No HAZARD; or	V Aupone Aug -otek	Nagar
Aribates	Warning by marking and within instructions	stek Aupote, bug "tek	Noboli
Anbo	Equipment with means to charge rechargeable batteries:	nborok Anborok Anbo	iek - buj
botek p	Warning against the charging of non-rechargeable batteries; and	Amboliek Amboliek Ar	potest N





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EN 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
Pupater	Man Tak supplies Muses, Mr. Mal	anbute. Pun	anhorek.
	Type of rechargeable battery indicated; or	stek ambotek Anbu	N
anor	Symbol 14 used	Sofek Amborek Anbo	N N
tek N	Battery compartment design	un week supotek trops	N
rak	Single component failure	And stek entotek Ar	N
Up.	Polarity reversal test	Anti-	Anbo N
13.2.3	Implosion of cathode ray tubes	No such device used	Pupo.
VUDO	If maximum face dimensions > 160 mm:	tek Auponek	FURO,
Aupo	Intrinsically protected and correctly mounted; or	Ibotell Ando alk abot	Bl N pulp
ISK DL	ENCLOSURE provides protection:	Pupoley Pupo eak	ootek N
potek	If non-intrinsically protected:	unpotek Aupon Mu	-botak
s nbolek	Screen not removable without TOOL	anbarak propans	N
polak	If glass screen, not in contact with surface of tube	of worldk Anboth	N see

14	Components and subassemblies	up stek supotek Aupo,	P
14.1	Where safety is involved, components meet relevant requirements	Anbotek Anbotek An	P
14.2	Motors	anbotek Anbo	obotek
14.2.1	Motor temperatures	ak antotek Anton	-bolek
Anbole	Does not present a HAZARD when stopped or prevented form starting; or	ootek Anbotek Anbote	N Anbote
otek kun	Protected by overtemperature or thermal protection device conform with 14.3	Anboles Anbolek Anb	otek N Ant
14.2.2	Series excitation motors	Pur Polek Pubole,	Vin.
Aupotek	Connected direct to device, if overspeeding causes a HAZARD	k Aupolek Aupolek	Amborek
14.3	Overtemperature protection devices	Johak Anbore K Anti-	- Nanbote
K Aup	Devices operating in a SINGLE FAULT CONDITION	abotek Anboin Am	dria N Har
otek p	a) Reliable function is ensured	obotek Anbores And	N-N
inbotok.	b) RATED to interrupt maximum current and voltage	Aupolak Vupolek b	AmboiN
Vupo.	c) Does not operate in NORMAL USE	w Mupo, My Moley	PLL No.
Anbo	If self-resetting device used to prevent aHAZARD, protected part requires intervention before restarting	nbotek Anbotek Anbotek	N N
14.4	Fuse holders	Anboton Ano	oolek N as
abotek	No access to HAZARDOUS LIVE parts	anbotek Anbo	N N





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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Pupore	May supplied the Popular	ar anbuth Ann	anhore*
14.5	Mains voltage selecting devices	orek Anborek Anbo	N
anba	Accidental change not possible	Lotek Anborek Anbo	N
14.6	Mains transformers tested outside equipment	rup stek vupojek trupi	N
14.7	Printed wiring boards	Aup tek upotek M	N
Anbotek	Data shows conformity with V-1 of IEC 60695-11-10 or better; or	Antotek Antotek	Anborek
Anborse	Test shows conformity with V-1 of IEC 60695-11-10 or better	tek Anborek Anborek	N
ak bu	Not applicable for printed wiring boards with limited-energy circuits (9.4)	iposak Pupotek Pupo,	N bu
4.8	Circuits or components used as TRANSIENT OVERVOLTAGE limiting devices	Mipotek Vupose Vu	anbote N
Anbalek Anbalek	Test conducted between each pair of MAINS SUPPLY TERMINALS	ek anbotek Anbotek	AN N
pulpate	No HAZARD resulting from rupture or overheating of the component:	botek Anbotek Anbo	N ANT
AMO	- no bridging of safety relevant insulation	Aupotes Aupotes	otell N
otal I	- no heat to other parts above the self-ignition points	Aupoteix Villa Vil	unbotel N
Wer	mbatek Anbate K Matek Anbatek	Ariso rek anbotek	Pulpose
15	Protection by interlocks	Jest Ango sek anbovek	buppy.
5.1	Interlocks are designed to remove a hazard before OPERATOR exposed	Soret Anborek Anbore	Nacht sek
5.2	Prevention of reactivating	and antorell Ant	N
5.3	Reliability	And stek Anbolek	Upo,
Welk .	Single fault unlikely to occur; or	Anhatek Anbatek	N N
Plibra	Cannot cause a HAZARD	Alino tek abover	N
PUPP	rok aborek Anbores Ann arek an	polek Mipo, W. Mole	Anh
6 Anto	HAZARDS resulting from application	Aupolog Auron Br.	P P
6.1	REASONABLY FORESEEABLE MISUSE	Pupoles Manage Min	, batale N
"laolah	No hazards arising from setting not intended and not described in the instructions	Anbotek Anbotek	Auto N
PLPO.	Other cases of reasonable foreseeable misues	W Valor W. Spoley	N

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Ergonomic aspects

16.2

addressed by risk assessment

a) Limitation of body dimensions

Р

Р

Factors giving rise to a HAZARD the RISK assessment is reflecting those aspects:



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Clause	Requirement – Test	Result - Remark	Verdict
2.4400	Troday Strong Manager Ando	TOOM TOMAN	ATT STORE
Di.	b) Displays and indicators	eek abolek Anbolen	Р
60.	c) Accessibility and conventions of controls	by Piles William William	P
ο _γ .	d) Arrangements of TERMINALS	upo, alk apolek Vupr	Р
iak ai	spotek Auparen Auparek	Anton ak abolek Ar	boyer
7	Risk assessment	Antonia Antoniak	Auporan
Anborek	Rish assessment conducted, if hazard might arise and not covered by claused 6 to 16	Fully covered by clauses 6 to 16	priN
Anbat	Tolerable rish achieved by iterative documented process covering the following:	lbotek Anbotek Anbot	N M
h bu	a) RISK analysis	Anbore And Andrek An	octobe N
010	identify HAZARDS and estimate RISKS	Vulpayer, Yun	Nevodna
Anboten	b) RISK evaluation	Anboren And	Nek Nek
Anbaten	plan to judge acceptability of resulting risk level based on the estimated severity and likelihood of a rish	borek Anborek Anborek	N Archor
PULL DILL	c) Rish reduction	"potok Pupole Vin	N Voto
rek	Initial risk reduced by counter measures:	portak Amborom Am	N
nbatek	Repeated risk evalution without new risks introduced	Anbotek Anbotek	N _{sk}
Anbore	Risks remaining after risk assessment addressed in instruction to responsible body:	of Anborek Anborek	None
da	Information contained how to mitigate these rishs	July applak Aupon	N
Legy b	Following principles in methods of risk reduction applied by manufactuer in giver order:	anbotok Anbotek Anb	N
botek	1) RISKS eliminated or reduced as far as possible	unbotek Anbo	N ^k
Anbotek	2) Protective measures taken for risks that cannot be eliminated	k Anbotek Anbotek	Norel
Anbe	User information about residual risk due to any defect of the protective measure	orek Anbotek Anbotek	N.nb
elt a	Indication of particular training is required	Polek Vupoles Vup	N N
polok	Specification of the need for personal protective equipment	Aupolejy Wapolejy V	Anboyer N
Anbore	Conformity checked by evaluation of the risk assessment documentation	Tok Tubolek bupatek	AR Notes
bri.	elt above Ann is notek ont	to by the opposes	Dan

ANNEX F	ROUTINE TESTS				pupo	- Plus
DOL. 1844.	Manufacturer's declaration	anbotek.	Anbore	bus	23	poles N M





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4.4.2	Table: Summary of single fault condtions			stalk substalk 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	New X	Anbotek	Anboten Anbot
4.4.2.2	Protective impedance	X	VIIDOLO	and telephone
4.4.2.3	Protective conductor		X	Pup - Wek
4.4.2.4	Equipment or parts for short-term or intermittent operation	X	it bil	potek Anborek
4.4.2.5	Motors	X w	0,-	hofek - Anboten
4.4.2.6	Capacitors	X	Uniport IL	An horek-
4.4.2.7	Mains transformers	botek	X	a work out
4.4.2.8	Outputs	Anborek	×	Short-circuit were applied to all outputs. No hazard.
4.4.2.9	Equipment for more than one supply	ant	X	unbo well abotek
4.4.2.10	Cooling	X	nbolak	tripor - but
4.4.2.11	Heating devices	Х	anbotak	Wipon Par
4.4.2.12	Insulation between circuits and parts	X	- abote	k Nipon bu
Note:	potek Anboy Pro Otek Pupotey	PULD	6 00	otek Aupoin

5.1.3 c)	TABLE: N	IAINS supply				Knth N ^{EK}
Anboren	Marked ra	iting (V)	Vipo, b	No ok	Anboren An	in week
anbol	Number o	f phases	Mpor	by,	Anbole	PLOD.
sk an	Frequenc	y (Hz)	sk Pupor	bi notek	Bula olan	Anbo
Neto	12/2	nA)		76.5	k Anboten	Allo
Yeren	Power (W)	- Malak pribo	in but	rodna - Noro	24-
Tun Tungk	Power (V/	٩)	pi washing pi	Poles Bur	notek - on	Date).
Test No	Voltage (V)	Frequency (Hz)	Current (A)	Power in (W)	Power in (VA)	Comments
	and - Ant	CIC PILE	A POLEK	ARD	Nate V	Pupor - Pur
Note(s):	Note.	nbotek Anbot	of Pin	Anboten	prio atek	anbotek An

5.3	TABLE: [Durability	of marking	gs			(0	P
	Mark	ing meth	od (see note	Agent				
1) Adhes	sive label	NSN.	pupotak	Anbo, ask An	A Water	PLEASE PLANT	-otel ^k	anboral
2) Ink pr	inted	Hotel	Anbotek	Pupo,	B Isopropyl	alcohol 70%	hotek	pripi
3) Laser	marked	abotek.	Anbore	Anbo	C (specify a	gent)	Pur-	r b
4) Filmo	oated (plastic	foil cont	rol panel)	oter And	D (specify a	gent)	by.	ořek





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by	-	P.O.		727	1.0°E	Ambarak	enpoter Pub
Yek PL		6.51	policia America	anbotel	Aupotok ek	Pupp, Pu	
upotek notek			ns and operating dev	1 prob	stek Aupo	ak Anbotek	
AUN TOLEK	- Swi	tches and circuit-b	oreakers (5.1.6)	Anbolo	P.	unek m	botak Anbo
Vier.	- Dou	ıble/reinforced eq	uipment (5.1.7)	(h)	210	Vier.	Anborek Anbo
	- Fiel	d-wiring TERMIN	AL boxes (5.1.8)	<i>*</i>	Upole		
	- Wa	rning markings (5.	.2)		1 _{br/boyer}	bun	nbotek p
	3.65	13.37	I	Labal	loose	Curled edges	
Metho	602	Test agent	Remains legible Verdict	Verd		Verdict	Comments

6	TABLE: Prot	ection agai	nst electri	ic shock					otek N M
potek pu	Block diagram	n of the syst	em	Phip	:	- nbote	k bupo	Pr.	
- abotek	Pollution degree 3								
abotek.	Overvoltage installation category:						III abotek Anbote		
Location o	f\/na	Max. working			te 3)	volt		Comments	
description	(note 1)	voltage (note 2)	PWB	CTI	Other	CTI	3) mm	(note 2)	
otek bri	pos - bus	notel-	Anboton	VIJE.	, 1/SP	a nbatal	- bupo,	- Pi).	-4910H
NOTE 1 – Type of insulation: BI = BASIC INSULATION DI = DOUBLE INSULATION PI = PROTECTIVE IMPEDANCE RI = Reinforced INSULATION SI = Supplementary INSULATION			NOTE 2 – Types of voltage Peak impulse test voltage (puls r.m.s. d.c. peak			ulse)	NOTE 3 – II CATEGORI CATEGORI DEGREES should be s "Comments	ES (OVER ES) or PO which diffe hown unde	VOLTAGE LLUTION r from these

6.2	TABLE: Dete	rmination of accessible	parts	P
ŀ	tem	Description	Determination method	Exception under 6.2.1
Anbotek Anbote	Anborek	Examination	The jointed test finger (see figure B.2) is applied in every possible position	k Anbore Anbore
Note(s):	olek Wupon	ek shorek pr	bore. Ann artek and	olek Pupo





6.5.2.4	TABLE: Impedan	ce of protective bondir	ng of plug-connected equ	ipment N
ACCESSIB	BLE part under test	Test current (A)	Voltage attained after 1 min (V)	Result
Pupo	bri. Palak br	boton And	Pupotek - Pupo,	hotek - Anbore
Note(s):	k shotek	Ambores Anno stek	anbotek Anbo	k hotek Anbote

6.5.2.5	TABLE: Impedance of protective bonding of permanently connected equipment							
ACCESSIB	LE part under test	Voltage atta	ined (s)	Time for voltage below allowable		Res	ult	
by, Potak	Anboren An	Hak -	nbotek	Wipon	polek.	Anbota.	Ann	
Note(s):	Anboren	Anon	abotek	Auport	bur Polek	Anboren	Pupo	

6.7	TABLE: I	nsulation r	equirements			oo _{tot} N N
8	Resistanc	ce to mecha	nical stresses	abotek palpati	anbotok	
10.5.1	Integrity of	of CLEARANC	ES and CREEPAGE DIS	TANCES	Jose Jens	N
	Location		initial CREEPAGE DISTANCE (mm)	Initial CLEARANCE (mm)	Maximum working voltage (V)	Comments
ek or	loolek Bi	100.	aborek_ Anbore	Notek.	Aup of ok	upo lak
Note(s):	vupolek	Pupo.	Polek Pupe	And And	k whotek	Pupo, Py
	cal tests, e (N)	Static	Dynamic	Drop test, normal	Drop test, hand- held	Comments
w potek	- Aupola	Fur	ofek ankofek	Aupo Pu	Posek - Vupose	Ant grak
Note(s):	ak Mupos	Buo	rek anbotek	Vupo.	work anbo	des bue

TABLE:	Dielectric strength	tests for protection	against the sprea	ad of fire	P Pr
n	Working voltage (V)	Test voltage (V)	Result	Comments	3
essible	rok Anbotek	DC 500V	stek PAnbotek	Anborek P A	Anbotek
	n	n Working voltage (V)	n Working voltage (V) Test voltage (V)	n Working voltage (V) Result	(V) Test voltage (V) Result Comments

6.10.2 TABLE: Cord	anchoraç	ge tests				N/s/N
Location	Mass kg	Pull N	Verdict	Torque Nm	Verdict	Comments
Anborek - Anbo	h. abotek	- Anb	210. Pr	ina Horou	lotesk - bruse	Joh - nbotek
Note(s): No cord provided	p. abol	lak b	upole.	Pur molek	Anbately Anbi	and aportal





8	TABLE	: Resistance	to mechanica	al stresses			P ^{(c}
Llocatio	n	Static	Dynamic	Drop test, normal	Drop test, hand-held	Result	Comments
Enclosu	re	obotek- b	Pass	abotelt p	Pole N	Pass	Poley - Vugo.

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

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

9	TABLE: Protection against the spread of fire			Pubotek
Item	Source of hazard or area of the equipment considered (circuit, component, liquid etc.)	Protection method (9a, 9b, 9c)	Protection details	Comments
Plastic parts	don William Will Potek Pupoles	9a	k abbagk	Aupore M
Note(s):	aborek Anboro Antoniak Amborek	bulgo.	obotek	Anboro

9.3.1	TABLE: Containment of fire within the equipmen	nt	Npote
14.7	Printed wiring boards	upotek Aupo, or bolek	N partor
PL VILLO	Material tested:	aupotek Pupote Par	
otek p	Generic name:	albotak Anbota An	
obotek	Material manufacturer:	nbolek Anbola	
cholek.	Type designation:	ok obotek Anboin	
Popolek	Colour ::	tek abolek Anbole	
1 200	Conditioning details:	Jok abolek Anbol	
otek pr	Thickness (mm):	1 – 2 – 3 -	
Anbotek Anbotek	Duration of flaming after first application (s):	1 – 2 – 3 -	
tak An	Duration of flaming plus glowing after second application (s):	1 – 2 – 3 -	
Anbotek Anbotek	Specimen burns to holding clamp (Yes/No):	1 - 2 - 3 -	
ek Anbut	Cotton ignited (Yes/No):	1 – 2 – 3 -	

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9.4	TABLE: Limited-energy circuit							
	Test details: 1 –Location; 2 – maximum voltage r.m.s./dc.(V); 3 – maximum current (A); 4 – maximum power(VA); 4 – overload protection after 120s(A); 5 – circuit separation; 6 – decision(Yes/No); 7 – comments							
1	2	3	4	5	6	7		
ton - bu	n - make	P2/201	Alle - rak	Lab Mark	DUG H	-ntek		
Note(s):	Anbores Ann	els choise	K Anbo.	po	Anbore	Pun stell		

9.5	TABLE: R	ABLE: Requirements for equipment containing or using flammable liquids						
Anbai	Test details: 1 –Type of liquid; 2 –flammable liquids (b. quantity); 3 – flammable liquids (containment); 4 – comments							
1		2	3	4				
- VL	20010	but to the	oten public and about A	111-				

10	TABLE: T	emperature	measurements						P
10.1	Surface to	emperature li	mits — NORMAL CON	DITION and	/ or sig	NLE FAU	LT CON	DITION	PARE
10.2	Temperat	ure of windin	gs- NORMAL CONDIT	TION and / o	or SIGNLI	E FAULT	CONDIT	ION	N A
10.3	Other tem	perature mea	asurements	anbotek	Mupo,	-de	Bo.	REK	inhotel P
Operating of	conditions:	Normal work	king	suborek	Arri	bo,	bica	hotek	
Mipar	Frequency	y (Hz)	S _p V _{UD}	Wdgm	N.	PUPOLO	N- bs	Holek	
Pupale		W. C	Ogles Malo	P. T. V	otel	hour	50	min	
y Mupo	Voltage (V):							brie	
otek br	Ambient temperature Ta (°C)								
	Measurements: 1 – part/location; 2 – measured temperature Tm (°C); 3 – corrected maximum temperature Tm + 40°C – Ta (°C); 4 – maximum allowed temperature (°C); 5 – result; 6 – comments								Anbotek
1		2	3	4			5		6
PCB Maria	St. Mr.	abotek.	57.1	10	Opotek	prib	P	Dug.	rak- An
Terminal	apolej.	Anbo <u>rek</u>	55.6	bottell 12	0 Anbole	e de	P P	el. bi	Patek
Enclosure	Anbotek.	hupata.	46.5	12 Annual 12	o Amb	-botek	P pm	ootek	Aupole,
Transforme	r Anboys	Anna New	64.8	Anbot 11	0	anbotel	Р	bugg len	Ann
Note(s):	PLIP.	D. P.	Thotok Pupola	Bug	Note	anbi	BEK	PUPO	of to





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10.2	TABLE: Tem	perature of res	sistance m	ethod tempe	erature measu	rements	lookelk N s
4.4.2.7	MAINS Transfo	ormers	"upo,	Pin.	BUDOLE .	Pub.	N N
14.2.1	Motor temper	atures	PUDOLO.	Piles Polej	L anbotek	Pupe.	N. N.
Operating of	conditions:	, hotek	Pupole	Property of	rek anboth	Pulpo.	Yor
anbot	Frequency (H	z)	- ps/b0	Prince Prince	Lorek an	DOLGHE WALL	000
tek an	Duration (h, min) hour min						inp.
-otak	Voltage (V)	0.00	Nata Na	Pupole.	N	anbolek	P.c.
no dek	Ambient temp	erature Ta₁/Ta	a ₂ (°C)	Pupaier	Ame	°C(initial/fina	al)
Anhorsk		s: 1 – part/desi ′ – result; 8 – c		- R _{cold} Ω; 3 –	$R_{warm}\Omega;4-Ti$	(K); 5 – T _c (°	C);
1	2	3	4	5	6	7	8
iok - put	b//-	olek 8040	ter - bu	-0K-	- Joseph	100,0	20 - 01 21

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

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

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

10.5.2	TABLE: Resistance to	heat of non-metallic encl	losures	otek P A			
jotek j	Test method used:	Aupores Pup	See below				
abotek	Non operative treatme	nt	. [\lambda]	Pak			
Chatek	Empty ENCLOSURE	K Wpo _{tes} Yup	. [V] Morek Anbou	Porch			
abole	Operative treatment	alak Majagan Pup,	. [tol abovek Ambov	4 par			
	Part	Test temperature (°C)	Duration (h, min)	Verdict			
-ole	Enclosure	125	Anbo ak 1h botek unt	Р			
N. In	Dielectric strength test	(6.8)	. 500 V r.m.s./peak/d.c	upote P			
Note(s): No	hazardous live parts sha	ll be accessible	unbo, anbotek	Anboten			
10.5.3	TABLE: Insulating materials						
10.5.3a)	Ball pressure test	ak abarak Ar	ibole Anbole	Panha			
BUS	Max. allowed impression	on diameter	2 mm	Bak - BL			
	Part	Test temperature (°C)	Impression Diameter (mm)	Verdict			
Polo	Terminal	125	Antonia 1.1 Mark	anboP*			
Pupoleu	PCB	125	Ambore 1.1 Amb	Potek			
ATTOTON	Enclosure	125	1.3	Papar			
Note(s): No	o hazardous live parts sha	ll be accessible	anborak Anbores Anbores	tek bus			
10.5.3	TABLE: Insulating materials						
10.5.3b)	Vicat softening test (IS	O 306)	obolek Antone A	N			
	Part	Vicat temperature (°C)	Thickness of sample (mm)	Verdict			





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0584	Ando	anbotek.	Anboien	bus.	Pupotek	Pilpo, tok	anbotek_
Note(s):	Anborek	anbotek	Anboro	Pin Pupatek	Anboren	Anonabotek	Anbotek

11	TABLE: P	TABLE: Protection against hazards from fluids								
tek ando		Measurements: 1 – location; 2 – cleaning; 3 – spillage; 4 – overflow; 5 – equipment plus liquid; 6 – working voltage (V); 7 – test voltage (V); 8 – result; 9 – comments								
1	2	3	4	5	6	7	8	9		
100 -de	Matek	VIIDO.			Burn	_\X.==	March	Vupo.		

46	100	No.	-00, b	3.	VIEW PULL		
11.7.2	TABLE: Leakag	ge and rupture at	high pressure	•		By N Pup,	
Part	Maximum permissible working pressure (Mpa)	Test pressure (Mpa)	Leakage test Yes / No	Burst test Yes / No	Comme	nts	
pinn atek	nn o rok	Aupo, ak	-hotek- bu	Pur Pur	otek - Anbotek	- Pulpa.	
Note(s):	rek subotek	Palpa	An potek	Pupales, Pu	otek supot	ek bupo	
11.7.3	TABLE: Leakage from low-pressure parts						
o _{to} , by	Measurements:	1 - ; 2 – (Pa); 3 –;	4 - Botek	A Lorek Anbores And Lek			
	Part	Test press	ure Leal	kage (Yes/No)	Comments		
Arboles	- Anno	sobolek An	DOI- NI	Molek- Anbore	PULD	anbolok	
Note(s):	PUD.	abotek	Pupase Pi	Lorek onb	ofer And	toda N	

12.2.1	TABLE: Ioniz	zing radiation	on				N
L	ocation	Measured	d values μSv/h	Verdict		Com	ments
Un Viely	Anborek	blago.	h. potok	Anbore An	ntek.	ouparel.	- Pupper
Note(s):	k anbotok	Milpon	k polek	Aupole	HUPP	anborek	bupa.
12.5.1	TABLE: Sou	nd level me	asurements				Naribo
Location			Measured values dBA		Calculated maximum sound pressure level		
Harad	Anboter A	Up.	anbatak	upo, of by	orak.	Aupate.	PULL
Note(s):	PLPO JO	Punn elek	unbotek.	Pupo, ok	-botak	bupolan	Auto
12.5.2	TABLE: Ultra	asonic pres	sure measurer	nents			ANN.
Location			Measured values		Comments		;
		dE	3	kHz			
. b.	motel Ar	Polen t	'Upo	abotek Anbo	Pr.	- dela-	Inpoles.
Note(s):	Ann	MOJEK	Pupo.	rek rup	Ole B	the same	hotel



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13.2.2	TABLE: Batteries tes	sts			N [€]
Kupotek	Battery load and char	ging circuit diagram	anbi	Hek Anbo	6
supptek	Battery type	Pupo _{les}	Pun.	upolest Mupo	VeV.
- moo	Battery manufacturer	Park Park	Po.	Amborele Ambr	2"
tek vi	Battery model	by Market	Kula	upolek k	Up.
rak	Battery catalogue No.	Mortage Management	PUP.	anbolek	Þì
Age.	Battery ratings	The state of the s	otek Nupe	iek stadiek	
Aupo	Reverse polarity insta	lment test	Anboles Anbe	rok -abofek	PUN.
Single	e component failures		Verdic	:t	,
Component		Open circuit,	result	Short circuit	t, result
lok bu	bo wolak	Holpoin R Pin	W Pupoley	Pupp ***	abotek pr
Note(s):	Pupa Pakak	Anbore. And	otek embatek	Pupo.	abotak
10%	200	" Pub. Plus		6/c "P.O.O.	Part II

14.1	TABL	E: Components			Potel
Object/part	No.	Manufac- turer/trademark	Type/model	Technical data	Mark(s) of conformity
Ann.	Yer	sabotek Ar	oo, bu motest	Aupoton Aur.	ahotek A
oter bu	no rel	- anborek	Anbora ok Anti-	Anbolek Anbo	anbotel ^k
anboten	HUDO	ok spotek	Aupor Are	lek Pupoles Pupo	abotek

1000		F 57 F	-1C	
14.3	TABLE: Over	rtemperature protection d	evices	N N
Reliability te	est:			
Com	ponent	Type(see note)	Verdict	Comments
run Vielr	- anborek	Puppo, Mr. Modely	Pupote, Tun,	Vupotel Vupo,
Note(s):	anbotok	Aubo, ak Polek	Anbore Ans Hek	Pupotek Pupo,
NSR = non-	self-resetting (10 times)		
NR = non-re	esetting (1 time	Jek amborek Ambo		
SD - colf ro	cotting (200 tin	(200		

14.6	TABLE: Mains transformers tested outside equipment				
Plub.	Type:	K Andrek antotok			
P31,00	Manufacturer:	ord Ambotek Anbotek			
lak br	Temperature protection class of the lowest RATED winding (class or maximum RATED temperature):	inpotek Aupotek Aupo			
potek	Winding identification:	anbotek Anbounds			

Shenzhen Anbotek Compliance Laboratory Limited



Anb



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	Type of protector for winding:		ol.
		Short circuit	Over load
Pupote.	Elapsed time:	1s	1s Annotes
Puppie.	Current, primary (A):	otek mootes	Anbote Anbote
Enbore	Current, secondary (A)	abotek Ambote	Ant antek ant
rek prit	Winding temperature, primary (°C)	Puposer Puposer	bush wiek
bolek	Winding temperature, secondary (°C):	potek anbor	Pun otek
-botek	Tissue paper/cheesecloth test:	r roomer and	John And
by, Pokak	Voltage test	N holok	Anbotes Anb
Note(s): No	any transformer used.	n Pin	Anboker Anbo

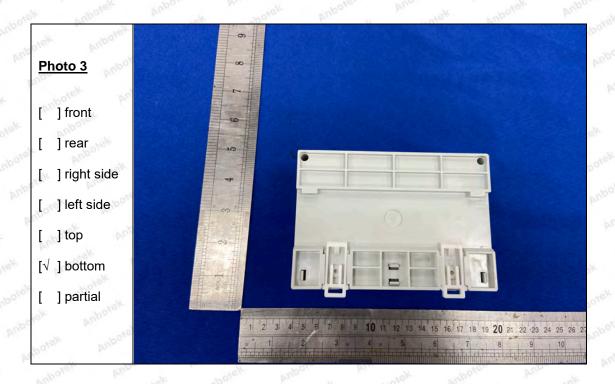








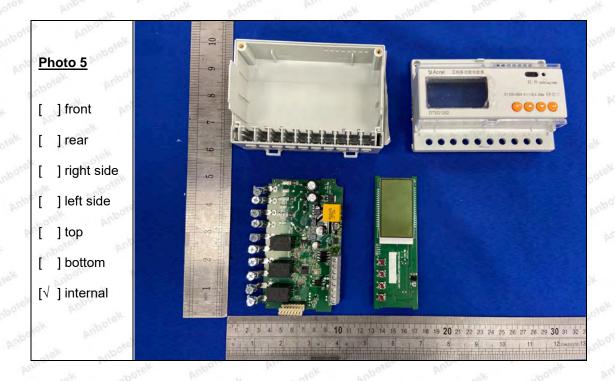


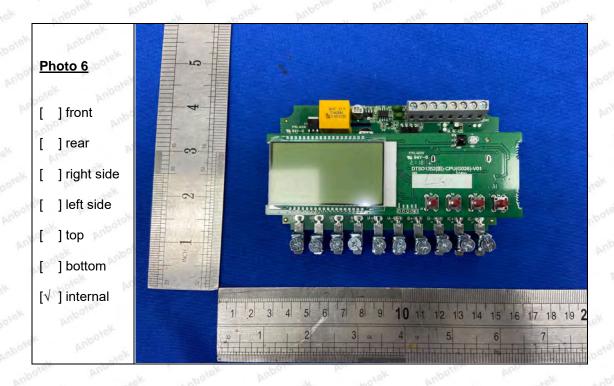






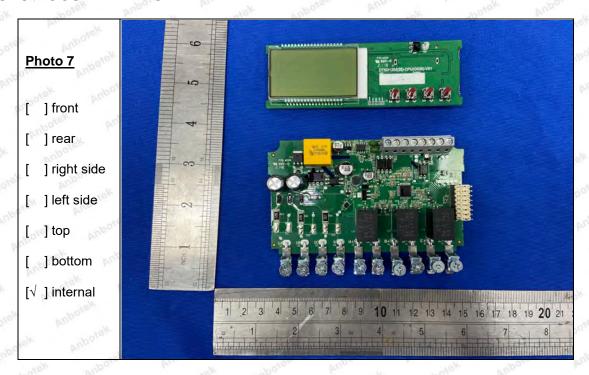








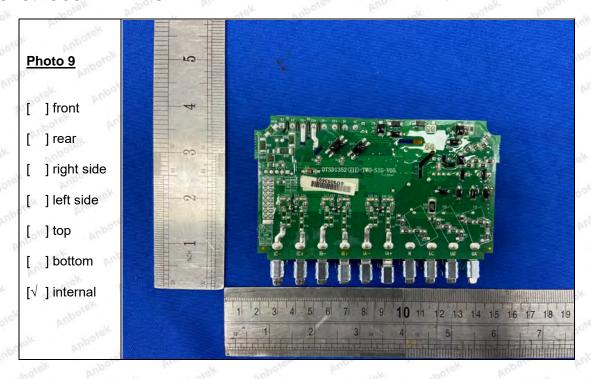


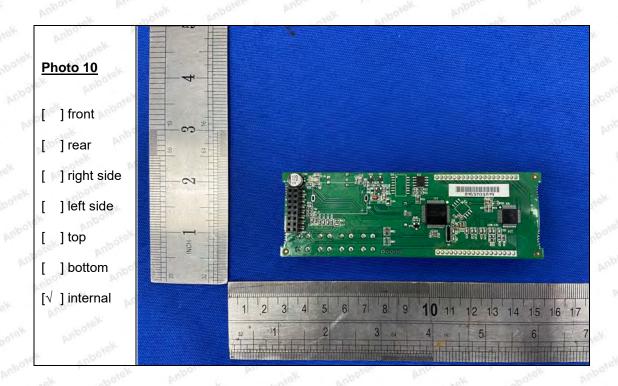












***** End of Report ****