

Report No.: 18230SC20012901

# **Test Report**

Acrel Co., Ltd. Client Name

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

**Product Name** Feeder Line Protection measuring control device

Mar. 07, 2022 Date

Shenzhen Anbotek Compliance Laboratory Limited

Compliance Laboration

Anbotek



#### **TEST REPORT**

#### EN 61010-1, EN60255-27

Safety requirements for electrical equipment for measurement, control, and laboratory use Measuring relays and protection equipment Product safety req

Report reference No. ...... 18230SC20012901

Compiled by .....: Sanko Chen

Sanko Chen

Soft In

Approved by .....: Jeff Zhu

Date of issue .....: Mar. 07, 2022

Contents .....: 52 pages

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

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

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

Guangdong, China.518128

Testing location .....: Same as above

Applicant ..... : Acrel Co., Ltd.

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

Test specification

Standard...... EN 61010-1:2010+A1:2019, EN60255-27:2014

Test procedure .....: LVD test report

Type of test object

Description .....: Feeder Line Protection measuring control device

Trademark .....: Acrel

AM5-F、AM5-T、AM5-M、AM5-U1、AM5-C、AM5-B、AM5-Model/type reference .............: DB、AM5SF-F、AM5SF-T、AM5SF-M、AM5SF-B、AM5SF-C

DB、AM5SE-F、AM5SE-T、AM5SE-M、AM5SE-B、AM5SE-C、AM5SE-D2、AM5SE-TB、AM5SE-UB、AM5SE-MD、AM5SE-

D3、AM5SE-K、AM4-U1、AM4-I、AM3SE-U、AM3SEI、AM2SE-

V、AM2SE-H

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

Province, China

Factory.....: Same as manufacturer

Address ...... Same as manufacturer

Rating ...... Control power supply: AC/DC 220-240V

Rated voltage: 100V Rated current: 5A





#### Test item particulars

Pollution degree..... III

#### Possible test case verdicts

#### Testing

Date of receipt of test item ...... Feb. 22, 2022

Date(s) of performance of test...... Feb. 22, 2022 to Mar. 01, 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

Feeder Line Protection measuring control device

Model No: AM5-F

Control power supply: AC/DC 220-240V

Rated voltage: 100V Rated current: 5A



Made in China

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

Importer: XXX Address: XXX



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0505	Arto Kotek Anbotek	EN 61010-1	Anboren Anbo	Anbotek
Clause	Requirement – Test	Anbar tak anbar	Result - Remark	Verdict
rapore.	trust training	Villag.	otek anboth ken	k norek

roll support And the mote	Pulpa Tek	anbore
TESTING IN SINGLE FAULT CONDITION	otek Wilpoter Wilpo	Popore
Fault tests	Fotek Anborok Anbo	elic P
Application of fault conditions	and and and Andrew	P
Single fault conditions not covered by 4.4.2.1 to 4.4.2.12	Anborek Anborek Ar	N N
Protective impedance	Antiples Anti-	Niek
Protective conductor	tek aupotek kubo	Naplek
Equipment or parts for short-term or intermittent operation	ibotek Anbotek Anbot	N Anbo
Motors	Anboro An	octor N M
Capacitors	Anbare And	smbotoN
Mains transformers	Anbore And atek	Rup Pek
Short circuit	lak Anbola Anbolak	Noorek
Overload	botek Anbote Anb	N N N
Outputs	hotek Anbotek Anb	nek P
Equipment for more than one supply	An hotek Anboten An	P
Cooling	An Anbotek	N.K
Heating devices	k Potek Vupotek	Arrib N walk
Insulation between circuits and parts	And otek anborek	PP
Interlocks	Doze Will Pulph Pulphe	Nacibos
Voltage selectors	Anboro, Ann otek out	DIEK N PUL
Duration of tests	Anboron Anti-	<sup>upolek</sup> P
Conformity after application of fault conditions	Anbores Anbo	<sub>nnb</sub> cP <sup>W</sup>
Conformity after application of fault conditions	Aupor An	63
	Fault tests  Application of fault conditions  Single fault conditions not covered by 4.4.2.1 to 4.4.2.12  Protective impedance  Protective conductor  Equipment or parts for short-term or intermittent operation  Motors  Capacitors  Mains transformers  Short circuit  Overload  Outputs  Equipment for more than one supply  Cooling  Heating devices  Insulation between circuits and parts  Interlocks  Voltage selectors  Duration of tests	Fault tests  Application of fault conditions  Single fault conditions not covered by 4.4.2.1 to 4.4.2.12  Protective impedance  Protective conductor  Equipment or parts for short-term or intermittent operation  Motors  Capacitors  Mains transformers  Short circuit  Overload  Outputs  Equipment for more than one supply  Cooling  Heating devices  Insulation between circuits and parts  Interlocks  Voltage selectors  Duration of tests

Pil.	alon holy	Marie	MAD
5 Anbotek	Marking and documentation	otek Anbotek Anbo	Popole
5.1.1	General	notek anbotek Anbo	P P
otek an	Required equipment markings are:	rung Bupatek Bup.	- No.
Mara	Visible:	Ann otek ambotek A	ipo. b
rup, wek	From the exterior; or	And grak sintoriak	Pupo B
Anb. wek	After removing a cover; or	Vunn otek vupotek	N
BUDO	Opening a door	Her And Hek anbotek	Nopo
PUPP	After removal from a rack or panel	upoton Aupo	ek N pribe
hotek An	Not put on parts which can be removed by an operator	Anbarek Anbarek Ar	DOJEK N PI
Up.	Letter symbols (IEC 60027) used	Anti-otek antorek	Anbo Pak

Shenzhen Anbotek Compliance Laboratory Limited

Hotline 400-003-0500 www.anbotek.com



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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Anti-	Graphic symbols (IEC 61010-1: Table 1) used	ook shortek Anbotek	P
5.1.2	Identification	or an potek anbotes	PULL
W. Billian	Equipment is identified by:	oport Am	P
ak pr	a) Manufacturer's or supplier's name or trademark	Aubaja Au	P
Upopo ok	b) Model number, name or other means	Authoric but	Anborer P
Anbaro	Manufacturing location identified	Munder Was	priPoteir
5.1.3	Mains supply	Heir Vupasa bush	-150 h
Anton	Equipment is marked as follows:	Applete Andores And	ek pup
ich bu	a) Nature of supply:	"Poles Puppes, Pup	-otek 1
lootek otek	1) a.c. rated mains frequency or range of frequencies	Valpater Puppasek Yo	Anbotre
A TIBE	2) d.c. mark with symbol 1 of Table 1	Anter and and after	Pupp.
Piupo.	b) Rated supply voltage(s) or range	an photok	P
bupa	c) Max. rated power (W or VA) or input current	poter Andor Att above	k Paup
otek Ant	The marked value not less than 90 % of the maximum value	Anbotek Anbotek Ant	otelk N p
- otek	If more than one voltage range:	An ofek anboiek	N <sub>ak</sub>
Pure - otek	Separate values marked; or	Ann wotek Anbotek	ATTO N and
Plus Mel	Values differ by less than 20%	E Andrek Bribotek	N
brun	d) Operator-set for different rated supply voltages:	pore Anti-otek antiote	A(10)
NU.	Indicates the equipment set voltage	Anboro And otek onb	otek N N
ofer p	Portable equipment indication is visible from the exterior	Anborek Anborek	UpotekN
motely.	Changing the setting changes the indication	k hotek Aupotein	PULL N
Anbotek	e) Accessory Mains socket-outlets accepting standard MAINS plugs are marked:	orek Anbotek Anbotek	Anbo.
k Aupo	With the voltage if it is different from the mains supply voltage	unbotek Anbotek Anb	nek N pr
o. A	For use only with specific equipment	Anbo. A Abotek A	pole N
Vupolek Upo,	If not marked for specific equipment it is marked with:	Anborek Anborak	Anbolek abolek
Anbotek.	The maximum rated current or power; or	Hek Aupotek Aupo	N
onbo	Symbol 14 with full details in the documentation	otek anbotek anbote	N
5.1.4	Fuses	upo dek pupolek kupo	P
botek	Operator replaceable fuse marking (see also 5.4.5):	And hotek Anborek Ar	N N





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Clause	Requirement – Test	Result - Remark	Verdict
Ciause	Requirement – Test	Result - Remark	verdict
5.1.5	Terminals, connections and operating devices	sek subotek Antoster	P
5.1.5.1	General	stek Anbotek Anbote	P
tek pr	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators marked	Aupotek Pubotek V	patek P
hotek	Insufficient space, symbol 14 used	- Hotek Anbotes	Pulper N. S.
Pupolek V	Push-buttons and actuators of emergency stop devices and indicators:	rek Anborok Anborok	Pal N
Pulpa	used only to indicate a warning of danger or	spotely Aupone Mu	er N an
iak pri	the need for urgent action	Pupolay Pupose Pulpa	N Vota
bolek	coloured red	anbolek Anbole Al	hoteN
nbolek	coded as specified in IEC 60073	abotek Antone	Nor
Aupotok	Supplementary means of coding provided, if meaning of colour relates (see IEC 60073):	ak Aupolak Aupolak	Anhore Anhors
bupa,	to safety of persons; or	potek Anboy Ak abot	W N ALTE
PLUT.	safety of the environment	Pupotok Vupor Vi	otel N
otak	Indication of emergency stop devices	aupotak Aupota A	Neson
5.1.5.2	Terminals	Enbotok Anborn	worsk.
a clockely	Mains supply terminals identified	ek abotek Anbota	N
- abole	Other terminal marking:	tek abolek Anbole	b21.0
k 20	a) Functional earth terminals (symbol 5 used)	po. Mak abotak Aupot	N
Na.	b) Protective conductor terminals:	Anto ak abotek Ant	P P
y You	Symbol 6 is placed close to or on the terminal;	Anbo, My An abolek	upotes P
upo,	Part of appliance inlet	Anbo. Al abotek	PUP N
Aribon	c) Terminals of control circuits(symbol 7 used)	ak Aupon ak anatek	Notes
kupare.	d) Hazardous live terminals supplied from the interior	otek Anborek Anbore	Anbo
rak pa	Standard mains socket outlet; or	unbo ok photek Anb	N B
, ale	Ratings marked; or	Anton alk abotek	N N
upo.	Symbol 14 used	Anbo. Al abolak	Nogua
5.1.6	Switches and circuit-breakers	W Wilder Har Bolok	PL Nove
Pupou	If disconnecting device, off- position marked	stek Aupon ak matel	Nobo
Anbo	If push-button used as power supply switch:	upolek bupon k	N par
1/10	Symbol 9 and 15 used for on-position	ale trois part	Je N





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Clause	Requirement – Test	Result - Remark	Verdict
Clause	requirement – rest	Tresuit - Tremair	Verdict
Dr.	Pair of symbols 9, 15 and 10, 16 close together	ook abolek Anbolek	N
5.1.7	Equipment protected by double insulation or reinforced insulation	upotek Minotek Aubor	bolek N
te <sub>A</sub> by	Protected throughout (symbol 11 used)	Pupoles Pupo, by	Joelek N
potek	Only partially protected (symbol 11 not used)	Anbotek Anbo	N colo
5.1.8	Field-wiring terminal boxes	No such parts	- nb-tek
anbotek	If terminal or enclosure exceeds 60°C:	stak supoleje bubo,	N <sub>50</sub>
ambal	Cable temperature rating marked	-otek Antoleit Antol	N
ele bil	Marking visible before and during connection or beside terminal	Pupolek Pupoley Pu	popotek N
5.2	Warning markings	Rupoten Pupp	anbotak.
anborek	Visible when ready for normal use	Anbores Anbo	nub Piek
p.nbotol	Are near or on applicable parts	lek bupoles William	y Phot
anbot	Symbols and text correct dimensions and colour:	hotek Anbotek Anbo	P N
in the	a) symbols min 2,75 mm and text 1,5 mm high and contrastingin colour with background	Anbotok Anbotok Ant	unhotek P
obotek	b) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and	Anbotek Anbotek	unibote P notek
Anbotek	0.5 mm depth or raised if not contrasting in colour	ek Autodek Autode	Anbore Anbore
bupo	If necessary marked with symbol 14	poter. Wupn rek "up.	otek Ppot
otek Ant	Statement to isolate or disconnectif access byusing a tool to HAZARDOUS LIVE parts is permitted	Anbotek Anbotek A	nbotek P
5.3	Durability of markings	Amborel Ambore	onbo <b>P</b> <sup>W</sup>
Anbotel	The required markings remain clear and legible in normal use	(see appended table)	. Porel
5.4	Documentation	oras Andrew Andrew	OLD.
5.4.1	General	Pupolo V Ville Viller	jbr <sup>ter</sup> P P
Polok b	Equipment is accompanied by documentation for safety purposes for operator or responsible body	Vupoley Vupoley	A sporest
Ambalak	Safety documentation for service personnel authorized by the manufacturer	Vulpotak Vulpotak	Anbotek Anbotek
Aupo,	Documentation necessary for safe operation is provided in printed media or	otek Anbotek Anbot	ek Probo
el-	in electronic media if available at any time	tun atek vapotek eu	р° Р
	Documentation includes:	PUDD.	00/0





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EN 61010-1			
Clause	Requirement – Test	Result - Remark	Verdict
Pupo,	- spotal Eupope, Aug Ster Pileo.	ek anbo ek abotek	Pupote
partonica	b) Technical specification	otek Anton An botek	Panison
5,000	c) Name and address of manufacturer or supplier	storek Anbore Ann	P pol
tek ar	d) Information specified in 5.4.2 to 5.4.6	Pupoles, Vuly	P
ipotek	e) Information about how to mitigate risks remaining	Anbotek Anbotek A	anbotek
Anbotel.	f) accessories for safe operation of the equipment specified	Antroles Anbotak	Ant Brek
	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 Anborek	Р
potek	h) Instructions for lifting and carrying (see 7.5)	eupotes Pupo, V	about N
anbotek stok	Warning statements and a clear explanation of warning symbols:	Anbarak Anbarak	Anb Pak
D'un	Provided in the documentation; or	olek anbetek	N
Burn	Information is marked on the equipment	abotel And tek anbot	N Anto
5.4.2	Equipment ratings	Pupotes, Vupo, Vak	otek
otal	Documentation includes:	supoter, burg, or	-tootek
nbatak	a) Supply voltage or voltage range	upotek Anbou	P <sup>s/k</sup>
v upotek	Frequency or frequency range	Jak Anbotek Anbote	Nore
capale,	Power or current rating	stek subotek Anbote	N
k Mup	b) Description of all input and output connections in accordance to 6.6.1 a)	Anbotek Anbotek Anbotek	otek P
otel <sup>t</sup> p	c) Rating of insulation of external circuits as required by 6.6.1b)	Anborek Anborek	nbotek N
Anbotek	d) Statement of the range of environmental conditions	Ambient temperature: 5°C~40°C	Amborek Anborek
Pupo	e) Degree of ingress protection (IP, IEC 60529)	IPX0	Panbe
PUP	f) Impact rating less than 5 J	rupotes, Vunna, esk vep	rel P N
yer by	IK code in accordance to IEC 62262 marked or	Pupaley Wasan Min	matak N
nbotok	symbol 14 of table 1 marked, with	Anbotak Anbar A	P
Anbolek	RATED energy level and test method stated	anbotek anbotek	Nagh
5.4.3	Equipment installation	tek supples autore	- ~ ~ o
- nbp	Documentation includes instructions for:	rek abotek Anbotek	bron.
PI.	a) Assembly, location and mounting requirements	Vulta. By.	Р
- Va.	b) Protective earthing	Mupa, Mr. Posek VI	N
Pale	c) Connections to supply	Annale Ann	Vuporek

Shenzhen Anbotek Compliance Laboratory Limited

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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Mun	d) Permanently connected equipment:	K Polisk Publish	Pupo
BUILD	Supply wiring requirements	oren anu orek anbotek	N
Pilip.	100° 100°	nhoren and	elly p
ter to	If external switch or circuit-breaker,     requirements and location recommendation	Anbotek Anbo	potek N
por	e) ventilation requirements	Aupore Mr.	Nodna
Anbore	f) special services (e. g. air, cooling liquid)	Antique And offelt	Nesk
Anboren	g) Instructions relating to sound level	tek Anboren Anbo	N
5.4.4	Equipment operation	world Anboren Anbo	9/4
ole or	Instructions for use include:	wek Pupoley Pupo	- No.
oolek	a) identification and description of operating controls	(see user manual)	P
nbotek	b) Positioning for disconnection	upotek Mupor	Nek
abalak	c) Instructions for interconnection	ak apolek bupole	P
Pro.	d) Specification of intermittent operation limits	(see user manual)	Р
A. Paris	e) Explanations of symbols used	pose hu Polek Wilpou	P
P. Dille	f) Replacement of consumable materials	Anbotto K Rott Ant	N
in in	g) Cleaning and decontamination	Wiporge, Wash	N Production
inpotak.	h) Listing of anypoisonous or injurious gases and quantities	Anbotek Anbotek	ACTO NOT
Pupale	i) RISK reduction procedures relating to flammable liquids (see 9.5)	potels Amborek Amborek	N
rek but	j) RISK reduction procedures relating burn from surfaces permitted to exceed limits of 10.1	Anbotek Anbotek Anb	otek N
nborek	Additional precautions for IEC 60950 conforming equipment in regard to moistures and liquids	Anborek Anborek	N
Anbolek	A statement about protection impairment if used in a manner not specified by the manufacturer	k hupojek bupaje	N
5.4.5	Equipment maintenance and service	otak Anbote Ann	- day
anb	Instructions for responsible body include:	hotek Anboten And	rak
Helt p	Instructions sufficient in detail permitting safe maintenance and inspectionand continued safety:	Pupolek Vupoley Yup.	work!P
16010N	Instruction against the use of detachable MAINS supply cord with inadequate rating	Anbotok Anbotok	anboi PF
Vupo.	Specific battery type of user replaceable batteries	Vulgo, by	An Bote
Pupate.	Any manufacturer specified parts	otek Anbote Ani	P
anbe	Rating and characteristics of fuses	Hotel Anboten Andre	P
ok pi	Instructions include following subjects permitting safe servicing and continued safety:	Anbotek Anbotek Anbo	polek P
	a) product specificRISKSmay affect service personnel	Anbotek Anbot Al	Anbot P



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0585	EN 61010-1	Anboten Anbo	Anbotek
Clause	Requirement – Test	Result - Remark	Verdict
Mupor	And with the man and the man a	Hely Bulgar Fire	anborok
	b) protective measures for theseRISKS	prok Anborek Anbo	Popo
6,00	c) verification of the safe state after repair	Lotek Anbovek Anbo	P
5.4.6	Integration into systems or effects resulting from special conditions	Anbotek Anbotek Anb	Dorek N
upoter.	Aspects described in documentation	amboter Anti-	Node N

6 Aupotain	Protection against electric shock		- apolel
6.1 Antonie	General	notek Anboten Anbo	ek eups
6.1.1	Requirements	Polsk Pupolsk Pupo	10k -
ibotek n	Protection against electric shock maintained in NORMAL CONDITION and SINGLE FAULT CONDITION	Comply with requirement	anboter anboter
Pr. Polok	ACCESSIBLE parts not HAZARDOUS LIVE	ak potek Aubole	P. P. ntek
ek Anbotel	Voltage, current, charge or energy below the limits in NORMAL CONDITION and in SINGLE FAULT CONDITION between:	botek Anbotek Anbotek	k P Anbo
rak	ACCESSIBLE parts and earth	And tek apporek Ant	N
probatak	Two ACCESSIBLE parts on same piece of the equipment within a distance of 1,8 m	Anbotek Anbotek	knibotek anbotek
Anborek	Conformity is checked by the determination of 6.2 and 6.3 followed by the tests of 6.4 to 6.11	ek Anborek Anborek	ARustak
6.1.2	Exceptions	Jo. Anbolek Anbole	- POP
otek br	Following HAZARDOUS LIVE parts may be accessible to an OPERATOR:	Amborok Amborek Amb	Potek N Pu
Anbatek	a) parts of lamps and lamp sockets after lamp removal	Anbotek Anbot	Pupc Nr
Anbotek	b) parts to be replaced by operator only by the use of tool and warning marking	otek Anbotek Anbotek	AN <sup>o</sup>
k kupot	Those parts not hazardous live 10 s after interruption of supply	rupotek Vupotes Vupo	net N
ora, bu	Capacitance test if charge is received from internal capacitor	Vupoley Vupoley	todel N
6.2	Determination of accessible parts	r sporek bupotes	Pun - Welf
6.2.1	General	Lak abotek Antiones	PUP.
Anbok	Unless obviously determination of accessible parts as specified in 6.2.2 to 6.2.4	nbotek Anbotek Anbotes	ek Pup
6.2.2	Examination	Anbotek Anbote An	potek P
Spotek	- with jointed test finger (as specified B.2)	abotek Anbore Al	Р





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Noroal	Pripos by Topics Vipos	- world Bilboth A	, vet
Clause	Requirement – Test	Result - Remark	Verdict
DUD.	workey kupo, by a subt supple	Arth telk thotek	Pupo,
priboto	- with rigid test finger (as specified B.1) anda force of 10 N	otek Anboros Allanbotek	Panipot
6.2.3	Openings above parts that are hazardous live	No openings	IGH N AM
to tak	- test pin with length of 100 mm and 4 mm in diameter applied	Anbarak Anbarak Ar	balek N
6.2.4	Openings for pre-set controls	Anborer Anborer	Ann Nek
Anbotak	- test pin with length of 100 mm and 3mm in diameter applied	tak Aupotak Aupota	Anbole Anbole
6.3	Limit values for accessible parts	Jostek Antonia Antonia	ek - anb
6.3.1	Levels in normal condition	abovek Anbove Ann	P Yes
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	Anbota P
Anbolak	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	ark Anbotek Anbotek	An N
anbote	Voltages are not HAZARDOUS LIVE the levels of:	stek Anbotek Anbos	Nr - 101
otek Anb	b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz	Anbotek Anbotek Anbotek	otek N A
anborek	for wet locations measuring circuit A.4 used	Anborek Anbore	N N
Aupolik	c) Levels of capacitive charge or energy less:	ok Anborek Anbo	Notes
k pupotes	1) 45 μC for voltages up to 15 kV peak or d.c. or line A of Figure 3	Sotek Anboros Anboro	· N <sub>polo</sub> o
otek bi	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	Anbotok Anbotek Anb	N A
6.3.2	Levels in single fault condition	Anborek Anbor	P
Anbotek	a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.	Accessible enclosure voltage less than limit value	Panborak
anbo anbo	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	orek Anbotek Anbotek	N <sub>i</sub> nbo
stelk ar	Voltages are notHAZARDOUS LIVEthe levels of:	Mark Aupotek Aup	- 18h
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 Arbolet Anbolek
Auporn	for wet locations measuring circuit A.4 used	stek Pupper Year Hotel	Naboti
Anbot	c) Levels of capacitive charge or energy less:	upology Aupon Pun	el N pril
IN PH	1) 45 µC for voltages up to 15 kV peak or d.c. or	obotek Anbotes Anb	orek N





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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Ann	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	otek Anbotek Anbotek	N Anbot
6.4	Primary means of protection	upotes, Muse, Mek Cubi	B Mul
6.4.1	ACCESSIBLE parts prevented from being HAZARDOUS LIVE by one or more of following means:	Anbotek Anbotek Ar	palek P Ambatek
Anborek	a) ENCLOSURES or PROTECTIVE BARRIERS (see 6.4.2)	rak amborak Amborak	An Pres
nbat	b) BASIC INSULATION(see 6.4.3)	tek anborek Anbor	Р
-a/e - n/	c) Impedance (see 6.4.4)	Joe sek spolek bupo	N bus
6.4.2	Enclosures and protective barriers	Anbo sek spotek An	P P
100	- meet rigidity requirements of 8.1	kulpa nak apatak	unboreN .
Anbahak	- meet requirements for BASICINSULATION, if protection is provided by insulation	ek anbotek Anbotek	An N
ek Ant	- meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access	botek Anbotek Anbot Anbotek Anbotek Anbot	N Ambr
6.4.3	Basic insulation	Anbore And Solek	unipote P
Anboro	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	ak anbotek Anbotek	Anti P
6.4.4	Impedance	tek obolek Anbole	N
ak Anbi	Impedance used as primary means of protection meets all of following requirements:	anbotek Anbotek Anbot	Marie A
ootek p	a) limits current or voltage to level of 6.3.2	Pupolok Pupo, Pr	obote <sup>l</sup> N
Anbatek atek	b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate	Anbotek Anbotek	Amba N*
Anbotek	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7	otek Anbotek Anbotek	AN Anbo
6.5	Additional means of protection in case of single fault condition	inbotek Anbotek Anb	Jan Bu
6.5.1	ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of:	Anbotek Anbotek A	Anborek
ambatek	a) PROTECTIVEBONDING(see 6.5.2)	stek anbotek Anbou	Poboti
- Anbo	b) SUPPLEMENTARYINSULATION (see 6.5.3)	motols ambotes Anbotes	P
Nek PL	c) automatic disconnection of the supply (see 6.5.5)	Anbotek Anbotek Anbo	pořek N
poter	d) current-or voltage-limiting device (see 6.5.6)	apporer Antion A	N





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100/	7(L) 16k 74bp h. "K	P1.021	734c
Clause	Requirement – Test	Result - Remark	Verdict
Pupp	An about motion An about brook	and tek upotek	Pupor
Pupper.	Alternatively one of the single means of protection is used:	otek anbov Anbotek	N
	e) REINFORCED INSULATION(see 6.5.3)	upote. Ann stek eupt	N M
P.1	f) PROTECTIVE IMPEDANCE (see 6.5.4)	Pupolin, Pun	polek N
6.5.2	Protective bonding	Aupoter, Aur.	anborelé
6.5.2.1	ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION:	rek Anborok Anborok	anbole anbol
ak Anbai	Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or	Potek Vipolek Vipo	18/4 - PU
ootek L	Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL	Anbotek Anbotek Ar	Do N
6.5.2.2	Integrity of protective bonding	supplier Aupo	w patek
Anbalak Anbala	a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses	botek Anbotek Anbotek	N Ambor
"Ac	b) Soldered connections:	Anbo, ok hotek An	010.
Jan.	Independently secured against loosening	Aupolan Bun Holek	N soots
inpola i	Not used for other purposes	Pupoie Number	N artis
VUPOL	c) Screw connections are secured	SK Buponer Paris	None
hupote	d) Protective bonding not interrupted	potek Anbore Are of	N <sub>DO</sub>
eak Rup	exempted as removable partcarries MAINS SUPPLY INPUT connection	Arboldk Anbolisk Ank	otek N
upotek upotek	e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4	Anbotek Anbotek	N M
Anborel	f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING)	otek Anbotek Anbotek	N'A
B.nbr	g) If mains supply passes through:	hotek Anbores Anti-	rak -
telk of	Means provided for passing protective conductor	Polek Pupotes, Yup	Mark N
Malan	Impedance meets 6.5.2.4	briegh Wilpotes, b	Alber Alek
Anborek	h) Protective conductors bare or insulated, if insulated, green-and-yellow	Anborek kinborek	Anbotel
Aupotes	Exceptions:	stak Aupotes bush	2000
Anbo	1) earthing braids	Polak Pupoper Pupo	N N
ok ar	2) internal protective conductors etc.	antole antolek anto	N
	Green/yellow not used for other purposes	buy n color of	N





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OI-	Deminstrant Taster Mills	Daniel Daniel Bill	18/87
Clause	Requirement – Test	Result - Remark	Verdict
Pur	TERMINAL suitable for connection of a	arek vupotek	Pulpo
	PROTECTIVE CONDUCTOR, and meets 6.5.2.3	otek anbotek	Pupo
6.5.2.3	Protective conductor terminal	inpotes tripo	lek - M
ten Vi	a) Contact surfaces are metal	Anbore And Lotek ar	palek P
pote.	b) Appliance inlet used	Anbores Anu myek	anbot P
	c) For rewireable cords and permanently connected equipment, protective conductor terminal is close to mains supply terminals	tek Anborok Anborok	Ani Prek
ak Anbai	d) If no mains supply is required, any protective conductor terminal:	potek Anborek Anbor	ak - pri
polek	Is near terminals of circuit for which protective earthing is necessary	Anborek Anborek An	oote N
anbotek	External if other terminals external	Anbotek Anbo	Nek
Anbafak	e) Equivalent current-carrying capacity to mains supply terminals	lak Anbotak Anbotak	Nanhore
Pulp	f) If plug-in, makes first and breaks last	poter And otek Anbore	N Am
lotek Ant	g) If also used for other bonding purposes, protective conductor:	Anbotek Anbotek Ant	otek
worlek	Applied first	And botek Anboten	N <sub>M</sub>
Yu. Polek	Secured independently	K horek Anboten	ATTON
Pur motes	Unlikely to be removed by servicing	Le Lotek Anbovek	Ν
been	h) Protective conductor of measuring circuit:	poter Ans Lotek Anbote	Nacio
otek bur	Current RATING equivalent to measuring circuit TERMINAL;	Anborek Anborek Anb	otek N
	2) PROTECTIVE BONDING:	abotek Anboter A	N
-toolek	Not interrupted; or	K spokek Aupoten	Amb N
	i) Functional earth terminals allow independent connection	otek Anbotek Anboten	AN
ak Anbo	j) If a binding screw used for PROTECTIVE CONDUCTOR TERMINAL:	inbotok Antonia Anton	nok P
, ale	Suitable size for bond wire	Anton alk abotek A	ipare. P
upo.	Not smaller than 4,0mm (No. 6)	Mipo, 19k apolek	Pulpo B
Pulpo.	At least 3 turns of screw engaged	of Aupo, Mik Toolok	Public.
VII.PO	Passes tightening torque test	otek Aupo, ek hotek	$P^{\nu}_{\nu}$
ak Aupo	k) Contactpressure not capable being reduced by deformation of materials	upotek Aupotek Aupo	et N pe
6.5.2.4	Impedance of protective bonding of plug- connected equipment	Anbar arek Anbarek Ar	N





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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
anbotek anbo	Impedance between PROTECTIVE CONDUCTOR TERMINAL and each ACCESSIBLE part where PROTECTIVE BONDING is specified, is:	nborek Anborek Anborek	lak Pupo
iak pi	less than 0,1 Ohm; or	Pupo, Pr. Polek P.	N
v upotek	less than 0,2 Ohm if equipment is provided with non detachable cord	Anbotek Anbotek	AnborN Hotek
6.5.2.5	Bonding impedance of PERMANENTLY CONNECTED EQUIPMENT	tek Anborak Anboli	N
6.5.2.6	Transformer protective bonding screen	Postely William Bit apo,	sy N M
olek bu	Transformer provided with screen for protective bonding:	Anborek Anborek An	ootek 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	Anbotek Anbot
k vul	screen bonding with soldered connection (see 6.5.2.2 b ) is:	potek Anbotek Anbot	W N pari
atak .	- Independently secured against loosening	And otak anbotak An	N
atek.	- Not used for other purposes	Anti-	N N
5.5.3	Supplementary insulation and reinforced insulation	ak Anbotek Anbotek	Anto P
Anbole	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	Jotek Anboren Anbore	P Port
6.5.4	Protective impedance	Ankore kant	N
upatek b	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
Anbotel Anbotel	CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of DOUBLE or REINFORCE DINSULATION of 6.7	orek Anbotek Anbotek	A.N
tek Pup.	The protective impedance consists of one or more of the following:	inbote Anbotek Anb	nell N p
botak	a) appropriate single component suitable for safety and reliability for protection, it is:	Anbotek Ambotek A	N. Anboile
Anbore	RATED twice the maximum WORKING VOLTAGE	rek apatek Vapatek	PL No. of Contract
Anbo	resistor RATED for twice the power dissipation for maximum WORKING VOLTAGE	upotek Aupotek Aupote	N N
By Die	b) combination of components	Anborek Anbore An	ootell N
potek	Single electronic device not used asPROTECTIVE IMPEDANCE	Anborek Anborek A	AnborN

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Clause	Requirement – Test	Result - Remark	Verdict
PUPO.	and Annual Annual Annual	anbout Anbotek	Autore
6.5.5	Automatic disconnection of the supply	otek Pupo, betek	N <sub>poloot</sub> s
pulpo	a) RATED to disconnect the load within time specified in Figure 2	upotek ambote Anbo	ek N Ant
	b) RATED for the maximum load conditions of the equipment	Anborek Anborek Ar	patek N
6.5.6	Current- or voltage-limiting device	Pur Potek Villager	Amer Nack
Pun Polek	Device complies with all of:	Je kolek anboten	Public No.
Antar	a) RATED to limit the current or voltage to the level of 6.3.2	botek Anbotek Anbotek	N
ick pri	b) RATED for the maximum working voltage; and	Polsk Puporer VIII	orek N
bolek	RATED for the maximum operational current if applicable	Aupotek Aupotek Au	<sub>Ambote</sub> N
Anbatak Anbatak	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of SUPPLEMENTARY INSULATION of 6.7	ark Anbotek Anbotek	Anborek
6.6	Connections to external circuits	Hotel Anbotel And	AND 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	Anborek
PUB	- the external circuits	an And sek anborek	p <b>P</b> ool
bulge	- the equipment	poter Anbo	Phupo,
No.	Protection achieved by separation of circuits; or	Anbotok Anbo tek ob	onell P M
otek l	short circuit of separation does not cause a HAZARD	Anborosk Anborosk	nbote <sup>k</sup> P
TUD USK	Instructions or markings for each terminal include:	Aum otek aupotek	Pupper.
Amb.	a) Rated conditions for terminal	And stek anborek	P
POP	b) Required rating of external circuit insulation	oter And atek anbotal	Nupo
6.6.2	Terminals for external circuits	inpotes, but alek sup.	rak - Aul
upotek bi	TERMINALS which receive a charge from an internal capacitor are not HAZARDOUS LIVE after 10 s of interrupting supply connection	Vupoter Vupoter V	harek N
6.6.3	Circuits with terminals which are hazardous live	No such hazardous live terminals	Piuntey.
200	These circuits are:	and abotek andores	b'con
PL.	Not connected to accessible conductive parts; or	upon by	N Perce
botek	Connected to accessible conductive parts, but are not mains circuits and have one terminal contact at earth potential	Anborek Anborek Ar	N

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Clause	Requirement – Test	Result - Remark	Verdict
Mipore	hank supplied the following for the	ak Pupote, You	enhorek
s.ribote	No accessible conductive parts are hazardous live	otek Anbotes Anb	N
6.6.4	Accessible terminals for stranded conductors	Lotek Amborek Ambo	elle -
tek o	No RISK of accidental contact because:	Tun alak supolek kupi	N
riak	Located or shielded	And stek anbotek Ar	N
Anborek	Self-evident or marked whether or not connected to ACCESSIBLE conductive parts	Antolek Antolek	Anborn N
arboten	ACCESSIBLE TERMINALS will not work loose	stek suppley Muho,	N
6.7	Insulation requirements	stell unbotek Anbor	2/c
6.7.1	The nature of insulation	utek vupotek Vupo	- 4 <sub>0</sub>
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	Anborek Anborek Anborek Anborek Anborek Anborek Anborek	Anbotek Anbotek
6.7.1.2	Clearances	stek Anbotek Anbo	Р
ek An	Required CLEARANCES reflecting factors of 6.7.1.1	Anbotek Anbotek Anbo	otok P
Vupotey.	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	15K PUposen Pun	Poole
the purpose	Required CLEARANCES reflecting factors of 6.7.1.1	sofek Anborek Anbore	· P <sub>pri</sub> b
n de	CTI material group reflected by requirements	Antonia ak motek Ant	Р
J.	CTI test performed	Aupone Were Polsk	nborell P
6.7.1.4	Solid insulation	Vupase, Pun	Napole N
Anboide	Required CLEARANCES reflectingfactors of 6.7.1.1	of Aupology Valouely	N
6.7.1.5	Requirements for insulation according to type of circuit	rupotek Prupotek Prupos	rak Ann
nbotak p	a) In 6.7.2 for mains circuits of overvoltage category II with a nominal supply voltage up to 300V	Pupotes Pupotek V	thatel <sup>k</sup> N
Anbore	b) In 6.7.3 for secondary circuits separated from the circuits in a) only by means of a transformer	Anbarrek Anbarek	An Pales
Pulpe	c) In K.1 for mains circuits of overvoltage category III or IV or for overvoltage category II over 300V	nbotek Anbotek Anbotek	N N
Mak A	d) In K.2 for secondary circuits separated from the circuits in c) only by means of a transformer	Anbotok Anbotok Ar	poték P
ID.	e) In K.3 for circuits that have one or more of:	Ann k hotek	N odor

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Clause	Requirement – Test	Result - Remark	Verdict
Vupo,	to day bupage bus day supple	anbo ak wotek	Pupoke.
anbote anbot	maximum TRANSIENT OVERVOLTAGE is limited to known level below the level of MAINS CIRCUIT	otek Anborek Ann	ek Anbo
tak bul	maximum TRANSIENT OVERVOLTAGE above the level of MAINS CIRCUIT	Anbotek Anbotek And	potek N
vupotek po,	WORKING VOLTAGE is the sum of more than one circuit or a mixed voltage	Anbolek Anbolek	Anborn N
Anborek	WORKING VOLTAGE includes recurring peak voltage, may include non-sinusoidal or non-periodic waveform	hak Anborek Anborek	Anbol Anbol
ak Anb	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	kupay Wupatek	Anbotan Hotek
6.7.2.1	CLEARANCES and CREEPAGE DISTANCES	ar poley though	P
hatal	Values for MAINS CIRCUITS of table 4 are met	ink motely Anbotes	Р
Ne Pupe	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	populek Aupotek Aupo	P An
5.7.2.2	Solid insulation	"upotek bupon "k	N e
6.7.2.2.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	ek Anbotek Anbotek	Anti-
hupoley	Equipment passed voltage tests of 6.8.3 with values of Table 5	botels Ambores Ambor	N POOD
Pillo	Complies as applicable:	Anboro And Lotek ant	Dren N
otes by	a) ENCLOSUREor PROTECTIVE BARRIER Clause8	Anborek Anborek	inbotek N
Ambotek	b) moulded and potted parts requirements of 6.7.2.2.2	k Anbotek Anbotek	Amborel
Anbora	c) inner layers of printed wiring boards requirements of 6.7.2.2.3	otek Anbounds Anbotel	N <sub>e</sub> nbi
ak Ap.	d) thin-film insulation requirements of 6.7.2.2.4	inbo	N
5.7.2.2.2	Moulded and potted parts	Pupo, by	N
Anborek Latek	Conductors between same two layers are separated by at least 0,4 mm after moulding is completed	Anborak Anborak	Anbotek
6.7.2.2.3	Inner insulation layers of printed wiring boards	ole Aur stek supotek	Napo
ek Ano	Separated by at least 0,4 mm between same two layers	Upolog Vupolek Vupo	lek N k
botek	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	Anbotek Anbotes A	N





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Vo.	EN 61010-1	Ant wk totak A	upp.
Clause	Requirement – Test	Result - Remark	Verdict
Mupo.	to the model and the state of t	Anto E matek	Pupole
pupple	a) thickness at least 0,4 mm	otek Anboten Amb	N
	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	Inbotek Anbotek Anbo	ek N A
potek Anbotek	c) insulation is assembled of minimum two separate layers, where the combination is rated for test voltage of Table 5 for REINFORCED INSULATION	Anbotek Anbotek Anbotek	Anbotek Anbotek
5.7.2.2.4	Thin-film insulation	yes Yun dek Pupolek	Napo
ek Aut	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES	Anbotek Anbotek Anbot	octok N An
ools nodek	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	Anborek Anborek	Anboten Hotek
-balak	a) thickness at least 0,4 mm	ak abolek Anbole	N
anbate and	b) insulation is assembled of min two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	botek Anbotek Anbotek	N
otek Imbalek	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 Anbotek	N unbotek Anbotek
6.7.3 Ambolis	Insulation for secondeary circuits derived from mains circuits of overvoltage II with a nominal supply voltage up to 300V	potek Anborek Anborek	N one
6.7.3.1	Secondary circuits where separation from MAINS CIRCUITS is achieved by a transformer providing:	Antorok Antorek Ant	otek N
Mark	- REINFORCED INSULATION	Arm otek Pubolen	N
Up.	- DOUBLE INSULATION	Muss ofek vupotey.	Anban N
Anbotek	- screen connected to the PROTECTIVE CONDUCTOR TERMINAL	otek Anbotek Anbotek	N
5.7.3.2	CLEARANCES	wotek anbotek anbo	er P
abotek Ar	a) meet the values of Table 6 for BASIC INSULATION and SUPPLEMENTARY INSULATION; or	Anbotek Anbotek Anb	parek P
Anbotek	twice the values of Table 6 for REINFORCED INSULATION	a Anborek Anborotok	Panbotek
Anbat	b) pass the voltage tests of 6.8 with values of Table 6; with following adjustments:	potek Anbotek Anbotek	P.opc
rak an	values forREINFORCED INSULATION are     1,6 times the values for BASIC INSULATION	Anbotek Anbotek Anbo	potek P





Clause	Requirement – Test	Result - Remark	Verdict
rupotek	Pupo, by Boley Pupote, Pupo	ar autoriak Fupo,	-toprob
anbotek anbotek	if operating altitude is greater than 2000 m values of CLEARANCES multiplied with factor of Table 3	otek Anbotek Anbotek	P Anbot
tek pri	3) minimum CLEARANCE is 0,2 mm for POLLUTION DEGREE 2 and 0,8 mm for POLLUTION DEGREE 3	Anbotek Anbotek Anbotek A	patek N
6.7.3.3	CREEPAGE DISTANCES	- Anbolsk Anbo	Piek
Anborek	Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY INSULATION	tek Anborek Anborek	N Author
ok pri	Values for REINFORCED INSULATION are twice the values of BASIC INSULATION	Pulpolek Pupolek Pupo	potek P
oon bolek	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	bupanek Yupotek	unboten Motek
6.7.3.4	Solid insulation	ek anbotek Anbote	N N
6.7.3.4.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	potek Anbotek Anbote	y N Anb
otak patek	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	N unbotel <sup>k</sup>
Anbotek	values for REINFORCED INSULATION are 1,6 times the values of BASIC INSULATION	ek Anbotek Anbotek	Anbotel
k Anboli	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	Mark A
upotek.	value for REINFORCED INSULATION are twice the WORKING VOLTAGE	k potek Anborek	Amb N
An tookek	Complies as applicable:	ook abotek Amboren	N
100	1) ENCLOSURE or protective barrier Clause 8	on hotely tupole	N
stak br	2) moulded and potted parts requirements of 6.7.3.4.2	Anbotek Anborek Anb	N A
upotok	3) inner layers of printed wiring boards requirements of 6.7.3.4.3	Anbotek Anbotek	Aupo Nº
AMP	4) thin-film insulation requirements of 6.7.3.4.4	And atek sabolok	N
6.7.3.4.2	Moulded and potted parts	Hey Aup Hek Supotel	Nobo
lek Muon	Conductors between same two layers are separated by applicable distancesof Table 8	nborek Anbotek Anbr	N per
6.7.3.4.3	Inner insulation layers of printed wiring boards	Anton A Marek A	N

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1000	The state of the s	1. 10 mm	1.00%
Clause	Requirement – Test	Result - Remark	Verdict
Pupo,	Matel Anbates And atek Anbate	anbo. St. Bately	Pupoto
pribate	Separated by at least by applicable distances of Table 8 between same two layers	orek anborek Anz	N
	REINFORCED INSULATION have adequate electric strength; one of following methods used:	obotek Anbotek Anbo	N P
notek	a) thickness at least applicable distance of Table 8	potek Anbore Ar	N
Anbotek Anbotek	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION	ak Anbolek Anbolek	Anh N Anhorek
anbatt ant	c) insulation is assembled of min two separate layers, where the combination is rated for 1,6 times the test voltage of Table 6	obotek Anbotek Anbot	ek N
6.7.3.4.4	Thin-film insulation	Marie Antones An	N
Aupotek Aupotek	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES	alk Anbotek Anbotek	Anbotek
pupate	REINFORCED INSULATION have adequate electric strength; one of following methods used:	botek Anbotek Anbotes	y N
Dr. Dup	a) thickness at least applicable distance of Table 8	Pupotek Vupo, by	otell N
anbatak p	b) insulation is assembled of min two separate layers, each RATEDfor test voltage of Table 6 for BASIC INSULATION	Anbotek Anbotek	unbotek Subotek
Anbotes Anbotes	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:	ok Anborek Anborek Sotek Anborek Anborek	Note Anto
Yes	a.c. test of 6.8.3.1; or	aupo ok apolek bup	N
abotek	d.c. test of 6.8.3.2 for circuits stressed only by d.c. voltages	Anborek Anborek	nbore N
6.8	Procedure for voltage tests	k Pupotek Vupoten	Pols.
6.9 <sub>Mark</sub> ot <sup>ak</sup>	Constructional requirements for protection against electric shock	orek Anbotek Anbotek	P
5.9.1	If a failure could cause a HAZARD:	inposes auto	10k - b
Jen PL	a) Security of wiring connections	Puppiege Wunner	ipolek P
Polor	b) Screws securing removable covers	Aupoles App dek	Author P
Aupolok	c) Accidental loosening	Anboren Anbo	Potek
Allbotek	d) CREEPAGE and CLEARANCES not reduced below the values of basic insulation by loosening	otek Anbotein Anbotein	P
6.9.2	Material not to be used for safety relevant insulation:	hoole Anbotek Anbo	IN M
otek	Easily damaged materials not used	hotek Bubotek At	N
-V	Non-impregnated hydroscopic materials not used	And the sporest	N. N.



Clause	Requirement – Test	Result - Remark	Verdict
- upotek	Andrew Antrones Antro	anbotok sobor k	Pil
6.9.3	Colour coding	nek antotek Antote	N
Pupo	Green-and-yellow insulation shall not be used except:	upotek Aupotek Aupon	olek bu,
te, bu	a) protective earth conductors;	Aupolise Auponately	potel N
Upoter.	b) protective bonding conductors;	Anbores And arek	anbo'N
Aupoten	c) potential equilization conductors;	Antoles Anti-	Nex
Anboten	d) functional earth conductors	tek Aupolog Aupo	N <sub>thota</sub>
6.10	Connection to mains supply source and connections between parts of equipment	botek Anbotek Anbo	ABK PUP
6.10.1	Mains supply cords	Pupote Pun Pun	potek b
pole	Rated for maximum equipment current	Pulparen Pulpar	anboteP
Anbole	Cable complies with IEC 60227 or IEC 60245	Anbores Ante	ant Pietr
Vupayo,	Heat-resistant if likely to contact hot parts	lek Anboles Anson	Noorel
anbott	Temperature rating (cord and inlet)	hotek Anbote Anb	N N
ek Auk	Green-and-yellow used only for connection to protective conductor terminals	Anbotek Anbotek Ant	odek P
polek	Detachable cords with IEC 60320 mains connectors:	Anbotek Anbotek	unbotek hotek
w polek	Conform to IEC 60799; or	ak abotek Anbote	N N N
pole	Have the current rating of the mains connector	rek abotek Anbore	N
6.10.2	Fitting of non-detachable mains supply cords	Job Anbotek Anbot	- PUL
6.10.2.1	Cord entry	Anto, ook his abotek An	Date bu
1 Vin	Inlet or bushing smoothly rounded; or	Aupo, My modek	nboto N
Aupo,	Insulated cord guard protruding >5D	Aupor ak Piotok	prio N
6.10.2.2	Cord anchorage:	ek Anbor An Hotek	VII-POLSE
Anbote	Protective earth conductor is the last to take the strain	Potek Vuporg Wupote	N N Anibal
otek b	a) Cord is not clamped by direct pressure from a screw	Anborek Anborek Anb	N An
abalak	b) Knots are not used	Anbotak Anbon	N
Anborek	c) Cannot push the cord into the equipment to cause a hazard	Anborak Anborok	N. rek
Anbo	d) No failure of cord insulation in anchorage with metal parts	Hotek Authorek Publish	Nopo,
lesk or	e) Not to be loosened without a tool	matek anbotek Anb	N
botek	f) Cord replacement does not cause a HAZARD and method of strain relief is clear	Amborek Amborek A	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 horek antoner	Piolog
tek bu	Mains supply plugs, connectors etc., conform with relevant specifications	anbotek Anbotek Anbo	optek N
ipotek Kotek	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	tek Aupotok Aupotek	An N Antote
ar Anta	MAINS-type plugs used only for connection to MAINS supply	Potek Vupolek Vupol	el N polo
polek F	Plug pins which receive a charge from an internal capacitor	Anbotek Anbotek An	obotak Johannia
anbotek	Accessory MAINS socket outlets:	enborek pobo.	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 <sub>o</sub>
otel.	Employs switch or circuit-breaker	and Autober Aut	<sub>Alek</sub> N
inpotek.	If switch or circuit-breaker is not part of the equipment, documentation requires:	Anbotek Anbotek	upo <sub>tek</sub>
Anboro	a) Switch or circuit-breaker must be included in the installation	k Auponek Auponek	AIN OFFEE
4 - 00	b) Suitable location easily reached	rek sporek kupole	N
-alt	c) Marking as disconnecting for the equipment	rupo. Vek Protek Wup.	N Pr
6.11.3.2	Single-phase cord-connected equipment	Pupper by botek	ipoles -
upo.	Equipment is provided with:	Pupour Mary	Pupoje,
Anban	a) Switch or circuit-breaker; or	water water	PL Notes
Alpoion	b) Appliance coupler (disconnectable without tool);	plek Aupater Pun	Nobot
PUPO	c) Separable plug (without locking device)	apolok Auporar Aup	el <sup>e</sup> N <sub>see</sub>
6.11.4	Disconnecting devices	trafel Anbolan Anho	46h
404	Electrically close to the SUPPLY	rek aborek M	N





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Clause	Requirement – Test	Result - Remark	Verdict
Pupo,	tok apoles bus is folk	ar anbout his stak	anhore.
6.11.4.1	Switches and circuit-breakers	otek Anbotes And	N
	When used as disconnection device:	Lorek Anborek Anbo	N
tek on	Meets IEC 60947-1 and IEC 60947-3	Tun Polek Supolek Vup.	N
atelk	Marked to indicate function:	And otek anbotek A	N
up week	Not incorporated in MAINS cord	And otek Andotek	Mupo, N
Anborek	Does not interrupt PROTECTIVE EARTH CONDUCTOR	tek Anborak Anborak	an N
6.11.4.2	Appliance couplers and plugs	Hotels Anborer Anbo	sk - nb
nat had	Where an appliance coupler or separable plug is used as the disconnecting device (see 6.11.3.2):	Anborek Anborek Anbo	potek -
bolek	Readily identifiable and easily reached by the operator	Pupaley Vupatek	unboteN unbotek
Pupalak	Single-phase portable equipment cord length not more than 3 m	lek Aupolek Aupolek	Anhorsk Anhorsk
se Pupa,	Protective earth conductor connected first and disconnected last	potek Anbor Anbor	y N <sub>prilor</sub>

7	Protection against mechanical hazards		rupo
7.1	Equipment does not cause a mechanical HAZARD in NORMAL nor in SINGLE FAULT CONDITION	ek Anbotek Anbotek	Anbolek Anbolek
been	Conformity is checked by 7.2 to 7.7	pore American	Panbo
7.2	Sharp edges	Anbotes And antek ant	DIEK B MU
pole.	Easily-touched parts are smooth and rounded	Anboros Ann	nbotekP
Puppley	Do not cause an injury in normal use and	Anboren Anti-	antic P <sup>lk</sup>
Pupoley.	Do not cause an injury in single fault condition	ely Puposes Pupo	Porek
7.3	Moving parts	otek Anbotek Anbe	- 10018
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	tak N Anh
unbotak Aprodes	RISK assessment in accordance with 7.3.3 carried out	Amborak Amborak A	Aribo N
7.3.2	Exceptions:	y Aubon ok ka spolek	Arhore
Anbo.	Access to HAZARDOUS moving parts permitted under following circumstances:	otek Anbotek Anbotek	Nobote
okey-	a) obviously intended to operate on parts or materials outside of the equipment	Anbotek Anbotek Anbo	polek N
upotek	inadvertent touching of moving parts minimized by equipment design (e .g. guards or handles)	Anborek Anborek	Anbo'N





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	70 Febr 70m	1-101- MI	1.00
Clause	Requirement – Test	Result - Remark	Verdict
Anb. wek	h) If appratur access is upayaidable autoids	anto otek Antoriek	Pupor
	b) If operator access is unavoidable outside normal use following precautions have been taken:	stocker, Wilhouse Wilhouse	ek N
rek pri	1) Access requires TOOL	Hotek Pupoles bush	N Yaya
notak	2) Statement about training in the instructions	hotek Antole Ar	N
Anbotak	Warning markings on covers prohibiting access by untrained operators	Anbolek Anbolek	Amb Nek
Pupor	or symbol 14 with full details in documentation	tek Aupon An	Nasol
7.3.3	Risk assessment for mechanical HAZARDS to body parts	potels Antonies Anton	ele N pro
oolek F	RISK is reduced to a tolerable level by protective measures as specified in Table 12	Ambotek Ambotek Am	N
Anborek	Minimum protective measures:	entotek pobos	Nek
anbolok	A. Low level measures	ak snbotak Anbotak	N
subote	B. Moderate measures	otek Anbotek Anbo	N
onb'	C. Stringent measures	otek supotek Anbo	N
7.3.4	Limitation of force and pressure	Ann stek subotek Ant	N
anbatek	Following levels are met in normal and single fault condition:	Anbotok Anbotok	nibot N
Aupotek	Continuous contact pressure below 50 N / cm² with force below 150 N	ok Anborek Anborek	Nore
k Anbo	Temporary force below 250 N for an area at least of 3 cm² for a maximum duration of 0,75 s	Sole Ambolek Anbole	NAU <sub>p</sub>
7.3.5	Gap limitations between moving parts	abojek Aupole, Mun	- otel N
7.3.5.1	Access normally allowed	potek Ambole, b	N
Anbotek Anbotek	If levels of 7.3.4 exceeded and body part may be inserted minimum gap as specified in Table 13 assured in NORMAL and in SINGLE FAULT CONDITION	otek Anbotek Anbotek	Anbore
7.3.5.2	Access normally prevented	imposes burn.	ROK N P
Her An	Maximum gap as specified in Table 14 assured in NORMAL and in SINGLE FAULT CONDITION	Pupoles, Vupoles, V	ibatek N
7.4	Stability	Arra antak ambolak	Pupper
Anhatek	Equipment not secured to the building structure is physical stable	otek Ambatek Ambatek	APP Anbo
Anbor	Stability maintained after opening of drawers, etc. by automatic means, or	nbordk Anbores Anbor	N N
TEK DI	Warning marking requires the application of means	Anton Ark Antorek Ar	Poles N





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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Pupote	Hup wer suppley William of the	By Vupore, Yun	anborek
	Compliance checked by following tests as applicable:	borok Anbotek Anbotek	PUDO
Burn	a) 10° tilt test for other than handheld equipment	inpose And alek ando	N AT
Potek V.	b) multi-directional force test for equipment exceeds height of 1 m and mass of 25 kg	Anbotek Ambotek Ar	lookelk N
Anbotek	c) downward force test for floor-standing equipment	Antografic Antografic	Anborek
Pupor	d) overload test with 4 times maximum load for castor or support that supports greatest load	erek Anbortek Anborek	Ningh
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	aupatak Pupo M	NapoteN
7.5.1	Equipment more than 18 kg:	M. Suppley Muppe	New
s abalak	Has means for lifting or carrying; or	day supotek bupon	N
*abot	Directions in documentation	stek Anbotok Anbo	N
7.5.2	Handles or grips	Alba, Tek Pupotek Pupo,	P
val.	Handles or grips withstand four times weight	Anto tek abotek Ant	P
7.5.3	Lifting devices and supporting parts	Allow alk alpoyek	N N
Vupor Fek	Rated for maximum load; or	Anbo sok obotek	parto N
VUpo	tested with four times maximum static load	PARK PUPON NA PROMPH	None
7.6	Wall mounting	notek Anbour Ak wote	Ap00
k but	Mounting brackets withstand four times weight	anbotek Anbote Anti-	otek N b
7.7	Expelled parts	Pupotok Mipour Rupo	Hotek-
nborek	Equipment contains or limits the energy	anbotek Anbote	N
Metod	Protection not removable without the aid of a tool	k hotek Anboren	Natek

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	tratele P
upolek	Normal protection level is 5J	Considered 5J	abo <sup>3</sup> P <sup>F</sup>
Amborek	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	ipotes, Wupan sek upotesk	Napa
pho pho	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	Anbo, ok wolek At	Poles N





Clause	Requirement – Test	Result - Remark	Verdict
- Jacob	Treduite Ment	Troodic Tromain	PATO GIGIOT
M. Motek	d) IK code in accordance to IEC 62262 marked or symbol 14 used with full information in the documentation	otek Ambolek Ambolek	N Antoo
ek pr	For non-metallic ENCLOSURES rated below 2 °C ambient temperature value chosen for minimum rated temperature	Aupotek Aupotek Aupo	palek N A
po,	Impact energies between IK values, the IK code marked for nearest lower value	Anborrak Anborak	AupolN Nek
Pur apolek	Conformity is checked by performing following tests:	tek supotek Bupotek	Pupo.
p. bal	1) the static test of 8.2.1	walk aborek Anbore	Р
ale bu	2) impact test of 8.2.2 with 5J except for hand- held equipment	posek Puposek Pupo,	-tek b bu
Neroca Neroca	If impact energy not selected to 5J alternate method of IEC 62262 used	Annotek Anbotek An	botak N
hupotek	3) drop test of 8.3.1 or 8.3.2 except for fixed and equipment with mass over 100kg	Anborek Anbor	anbotek.
Pupago.	Equipment rated with an impact rating of lk 08 by that clearly meets the criteria	ek Aupole Ann anbotek	Noor
bulgo	After the tests inspection with following results:	poter Anto	K - BU
Jr Ani	- Hazardous live parts above the limits of 6.3.2 not accessible	Anbotek Anbor Ant	otol N
	- insulation pass the voltage tests of 6.8	Aupora Pur Pulak	N <sup>atodol</sup>
inpote.	i) no leaks of corrosive and harmful substances	Anbolo, And	Park Park
anboter	ii) Enclosure shows no cracks resulting in hazard	ak anbotes Anb	Pope
hupote	iii) CLEARANCES not less than their permitted values	potek Anborek Anbore	P P
Auto Malo	iv) the insulation of internal wiring remains undamaged;	Pupotek Votek Vup	otek P
No.	V) Protective barriers necessary for safety have not been damaged or loosened	Aupolio Aupolek	nbore*N
nborek	vi) No moving parts exposed, except permitted by 7.3	k Aupotek Aupotek	Pup. N.
M. Mole	vii) no damage which could cause spread of fire	ak shotek Anborer	ÞΡ
3.2	Enclosure rigidity tests	or Air hotek Anbotes	P
3.2.1	Static test	inpo, K Hotek Bupt	P P
le. b	- 30N with 12mm rod to each part of enclosure	Pupair Min	holsk P
holos	- in case of doubt test conducted at maximum rated ambient temperature	Anboras Anborak	N°dna
3.2.2	Impact test	Applied to enclosure with acceptable results	Pulpo,
PUPO A	Impact applied to any part of enclosure causing a hazard if damaged	nbotak Anbotak Anbo	e P
- 43	Impact energy level and corresponding IK code:	Pupper Pu	Paralle

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,05 <sup>0</sup> /2	EN 61010-1	Aupoten Aupote Au	nbotek
Clause	Requirement – Test	Result - Remark	Verdict
Pupore	the rest cuposes true	BL BURDEN FOR TREK	anhores
	Non-metallic enclosure cooled to minimum rated ambient temperature if below $2^\circ\!\mathrm{C}$	borek Anborek Anborek	PAnbor
8.3	Drop test	lupour when water wupo	N M
8.3.1	Equipment other than HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	Anborn Anborek Ar	looken N

5.5.1	DIRECT PLUG-IN EQUIPMENT	Potek Anbote Ar	Net Harris
Potak Potak	Test conducted with a drop height or angle of:	An Hotek Anboten	Amb Nek
8.3.2	HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	tek anbotek Anboten	An P
Aupo	Non-metallic ENCLOSURES cooled to minimum RATED ambient temperature if below 2 °C	Potek Wilsoley Wilde	ek P Anbo
Olos Vi	Drop test conducted with an height of 1 m	Pupose, Pup	ootek B bil
1800	VOD. 24. 20. 31.	Man Vup	No

9 nbote	Protection against the spread of fire		- nbeselv
9.1	No spread of fire in normal and single fault condition	ek Anbotek Anbotek	Pantorek
OK burn	Mains supplied equipment meets requirement of 9.6 additionally	ports Anbotek Anbot	otok Namo
botak	Conformity for each source of HAZARD or area of the equipment is checked by one of the following:	Anbotek Anbotek An	Introteil P
AUPOL	a) Fault test of 4.4; or	Aupon ok hotek	ant P
Anboun	b) Application of 9.2 (eliminating or reducing the sources of ignition); or	otek Anborek Anborek	Notes
Blk K	c) Application of 9.3 (containment of fire within the equipment)	Anbotek Anbotek Anbot	orek Pari
9.2	Eliminating or reducing the sources of ignition within the equipment	Anborok Anborek	upote <del>k</del>
Pun Usk	a) 1) Limited-energy circuit (see 9.4); or	Vin notek supotek	Amba N
Anbo	Insulation meets the requirements for BASIC INSULATION; OR	orek Anbotek Anbotek	NA Name
the per	Bridging the insulation does not cause ignition	hotek Anbore Ant	ok N sab
ofel <sup>k</sup>	b) Any ignition HAZARD related to flammable liquids (see 9.5)	No liquids used	porek N
rupo,	c) No ignition in circuits designed to produce heat	Pupo, r Pup	ambo N
9.3	Containment of the fire within the equipment, should it occur	rek abotek Aupotek	An-otek
r Pul	a) Energizing of the equipment is controlled by an operator held switch	upotek Aupotek Aupote	ek N
otek	b) ENCLOSURE is conform with constructional requirements of 9.3.1; and	Anbotek Anbotek Ar	ootek P a
Upo	Requirements of 9.5 are met	Ann tek -thorek	Arabor N
h a n n h a n	Anhotek Compliance Laboratory Limited	F 7001 DV	485





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Clause	Requirement – Test	Result - Remark	Verdict
Pupoter	topo to the supplier business business	ek Pupatek Yupa	abotek
9.3.1	Constructional requirements	otek anbotek Anbo	- 100
ek phot	a) Connectors and insulating material have flammability classification V-2 or better	Fire enclosure is made of metal and plastic flame rated V-0	ek P Ar
potak	b) Insulated wires and cables are flame retardant (VW-1 or equivalent)	Anbotek Anboro Ar	Anbort P.
Aupo,	c) ENCLOSURE meets following requirements:	Antique As Hotal	pri P
Anbora	1) Bottom and sides in arc of 5 ° (see Figure 13) to non-limited circuits (9.4) meets:	otek Anborek Anborek	N
9/4	i) no openings; or	Anboy	P
-ak	ii) perforated as specified in Table 16; or	Andrew Andrew Andrew	N
-A6-	iii) metal screen with a mesh; or	Pulpon ok Pounk	anboreN
AUPOLL	iv) baffles as specified in Figure 12	Anboro WK Mortely	BA P
Anbahan	Material of ENCLOSURE and any baffle or flame barrier is made of:	Fire enclosure is made of plastic flame rated V-0	Blook
ie no	Metal (except magnesium); or	de stok supotek Major	N
atak	Non-metallic materials have flammability classification V-1 or better	Antorek Antorek Ant	P
inpotek	ENCLOSURE and any baffle or flame barrier have adequate rigidity	Authores Authores	Anb Pak
9.4	Limited-energy circuit	is bolek anbotek	Pupp
Ant	a) Potential not more than 30 r.m.s. and 42.4 V peak, or 60 V dc	nbotek Anbotek Anbote	Nant Nant
ABK.	b) Current limited by one of following means:	Water Wilder Hung	. Mak-
Hotek	1) Inherently or by impedance;	hotek Anbore A	N
, hotek	2) Over current protective device;	k potek Aupoten	ATTE N
Pil.	A regulating network limits also in SINGLE FAULT CONDITION	Potek Aupotek Aupotek	PN Anb
PUP	c) Is separated by at least BASIC INSULATION	obotek Anbour Anti-	N Mar
iak b	Fuse or a nonadjustable electromechanical device is used	Pupolek Pupolek Vin	Polek-
).5	Requirements for equipment containing or using flammable liquids	No flammable liquids used	Ambo N
Anbotel	Flammable liquids contained in or specified for use with equipment do not cause spread of fire	oblek Anbotek Anbotek	N
PUDE	Risk is reduced to a tolerable level :	Pupology Pupo, Pipo, Principo	ek - p
atek b	a) The temperature of surface or parts in contact with flammable liquids is 25 °C below fire point	Anbatek Anbatek An	Solek N
O.V.	b) The quantity of liquid is limited	No such liquid used	Anbore N

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Clause	Requirement – Test	Result - Remark	Verdict
Pupo,	tok supplies buy k rol	er and	anhore.
sithote	c) Flames are contained within the equipment	otek anbotes Anb	N
	Detailed instructions for risk-reduction provided	Forek Amborek Ambo	N
9.6	Overcurrent protection	Man Wash Pupoles Vopo	N
9.6.1	Mains supplied equipment protected	And otek onbotek Ar	N
Aupotak	Basic insulation between mains parts of opposite polarity provided	Anbolek Anbolek	Anbolek
Anbota	Devices not in the protective conductor	tek Aupolan Aupo	Nobel
k pribe	Fuses or single pole circuit-breakers not fitted in neutral (multi-phase)	Anborek Anbores Anbor	ek N pulp
9.6.2	Permanently connected equipment	Authors bus otak au	ootee N
pole	Overcurrent device:	Rupotes And	N <sup>3</sup> odol N
Vupole.	Fitted within the equipment; or	Anbares Ank	KUICN EN
Piupojo,	Specified in manufacturer's instructions	olek Aupoles Aupo	Noore
9.6.3	Other equipment	potek Anboles Anon	N N
e)F	Protection within the equipment	Anthony	N N

10	Equipment temperature limits and resistance to	heat	TUIT TOK
10.1	Surface temperature limits for protection against burns	ak Ambotek Ambotek	Anbotel
hupon.	Easily touched surfaces within the limits in NORMAL and in SINGLE FAULT CONDITION:	(see appended table)	. P <sub>pob</sub> o
No.	- at an specified ambient temperature of 40 °C	Auton of Personal Auto	N
unbatek Linbatek	- for equipment rated above 40 °C ambient temperature limits not exceeded raised by the difference to 40 °C	Anbotek Anbotek	nboto P
Anbotel	Heated surfaces necessary for functional reasons exceeding specified values:	orek Anbotek Anbotek	hopo.
k kup	Are recognizable as such by appearance or function; or	Inpotek Pulpoun Yupo	TOY N
p <sub>de</sub> , b	Are marked with symbol 13	Aupole Bur Pur	ipotek N
Upolo	Guards are not removable without TOOL	Ambore Amb	Nodna
10.2	Temperatures of windings	Anbores Ank	Vunnyley.
ALIPOTO,	Limits not exceeded in:	ptek Aupotes, but, tek	lo <sub>do a</sub>
- Anbo	NORMAL CONDITION	motely Anbotes Anbotes	P
ral Yay	SINGLE FAULT CONDITION	hatak Anbolek Anbo	AND P
10.3	Other temperature measurements	(see appended table)	P
anzhan A	Following measurements conducted if applicable:	Anhorek Anborek	Anbon -

lek

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	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Aupore	buy week supplies buyer	k bupon how	anh Ores
pupotek	a) Value of 60 °C of field-wiring terminal box not exceeded	orek Anbotek Anbo	Anioo
Buppy	b) Surface of flammable liquids and parts in contact with this liquids	abotek Anbot Anbo	lelik N bil
	c) Surface of non-metallic enclosures	Anbolas Anu	potek P
lpotek	d) Parts made of insulating material supporting parts connected to mains supply	Anbotel Anthonek	Arboth
10.4	Conduct of temperature test	Antro A. Hotak	An Pres
10.4.1	Tests conducted under reference test conditions and manufacturer's instructions	rek Anboutek Anborek	Pupo
10.4.2	Temperature measurement of heating equipment	spote. Aug stek vupo,	Ske N bu
PUP	Tests conducted in test corner	Pupose, Pup	potell N
10.4.3	Equipment intended for installation in a cabinet or wall	Pulpaper, Vurpuer	Netodra
Anbo,	Equipment built in as specified in installation instructions	W Pupo, W Wilholek	partic N es
10.5	Resistance to heat	Anbotek Anbotek	P
10.5.1	Integrity of CLEARANCE and CREEPAGE DISTANCES	pote Anbotek Arbot	Pan
10.5.2	Non-metallic ENCLOSURES	Potak Pupopa Vu	Р
- Nege	Within 10 min after treatment:	Anborek Anboren	Pek
10.5.3	Insulating material	k wotek Aubotek	MITTER N
Anbotek	a) Parts supporting parts connected to MAINS supply	Jotek Anborek Anbores	P Poor
k Anbo	b) TERMINALS carrying a current more than 0.5 A	-polek Aupoles Aug	nek P
ovek by	Examination of material data; or	Pro-	nekP
Hotel	in case of doubt::	Polek Pupoley	Van 184
Alas.	1) Ball pressure test; or	kun tek upatek	₽ZEP P

11	Protection against hazards from fluids		Par - Pup
11.1	Protection to OPERATORS and surrounding area provided by EQUIPMENT	Vupoley Vupoley V	thotal N
aborek	All fluids specified by manufacturer considered	A abotek Anbore	N tek
11.2	Cleaning	rek spotek tupoten	N N N
11.3	Spillage	olk abotek anbotes	N
11.4	Overflow	upo, ok polek Pupo	N Pros
11.5	Battery electrolyte	Anbon ok hotek Ar	Poles - A
upole	Battery electrolyte leakage presents no hazard	Anbor Andrek	N Nodor

Shenzhen Anbotek Compliance Laboratory Limited



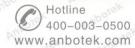
2) Vicat softening testof ISO 306



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dr <sup>Olak</sup>	Tipon No. No. And	D 100mg Pulper B	19/07
Clause	Requirement – Test	Result - Remark	Verdict
Pupo,	Hatel probable And Mak Makel	ek Ango, ak hotek	Pupoke.
11.6	Specially protected equipment	otok Anbore And	N
11.7	Fluid pressure and leakage	motels Amboses Amb	eli - d
11.7.1	Maximum pressure	runn autokey autories autor	valv
potek	Maximum pressure of any part does not exceed $P_{RATED}$	Anbotek Anbotek Ar	N Anbotes
11.7.2	Leakage and rupture at high pressure	Autole, Vue	Nue
Anbora	Fluid containing parts subjected to hydraulic test if:	sterk Amboron Amborok	Note
ok by	a) product of pressure and volume > 200 kPal;     and	Poolsk Prupolsk Prupol	N Am
oolek	b) pressure > 50 kPa	abotek Anbote An	N
anbatek anbatek	Parts of refrigerating systems meets pressure- related requirements of IEC 60335-24 or IEC 60335-24	ek anbotek anbotek	Anborek Anborek
11.7.3	Leakage from low-pressure parts	arek Anbolek Anbore	N
11.7.4	Overpressure safety device	din tek sipotek Pupo.	- Page
rak h	Does not operate in NORMAL USE	Anto tak abotek Ant	N
Anbotek Jo	a) Connected as close as possible to parts intended to be protected	Anbotok Anbotok	inboa N
Anbotek	b) Easy access for inspection, maintenance and repair	ek pubotek pupotek	Nore
Prince	c) Adjustment only with TOOL	pore. Am. otek anbote	Nacio
P.U.	d) No discharge towards person	Anbotes Ann stek sub	N P
of ell	e) No HAZARD from deposit of discharged material	Aupotos Aupotos	nbotel <sup>k</sup> N
nborek	f) Adequate discharge capacity	anborek Antio	N
Anbolek	No shut-off valve between overpressure safety device and protected parts	ek Anbotek Anbotek	Norsk

12 And	Protection against radiation, including laser sources, and against sonic and ultrasonic pressure		rak - Anb
12.1	Equipment provides protection	Pin Potek Puppater Pr	N
12.2	Equipment producing ionizing radiation	but wotek pubolak	AUD N SER
12.2.1	Ionizing radiation	K Pub Potek Putadok	N
12.2.1.1	Equipment meets the following requirements:	ole Augustak aupotak	Nopos
Nek Pun	a) if intended to emit radiation meets requirements of 12.2.1.2; or	hoosek Anbotek Anbo	N Pup
hotek	tested, classified and marked in accordance to IEC 60405	Anborek Anborek Ar	Anboren





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Clause	Requirement – Test	Result - Remark	Verdict
Anbotek	b) if only emits stray radiation meets requirements of 12.2.1.3	otek Anbotek Anbotek	N Antoo
12.2.1.2	Equipment intended to emit radiation	upotes, trupp	N N
ieg bu	Effective dose rate of radiation measured:	Pupotes Pupo.	oolek N
potek.	If dose rate exceeds 5 μSv/h marked with the following:	Anborek Anborek	Anbo'N
Pur Puller	a) Symbol 17 (ISO 361)	k puek aupoten	Pubb
Pilip.	b) Abbreviations of the radionuclides:	The Publish	N
Bulga	c) With maximum dose at 1 m;or	Anto Anto	N Pag
oolek bu	with dose rate value between 1 μSv/h and 5 μSv/h in m	Anbotek Anbotek An	octok N
12.2.1.3	Equipment not intended to emit radiation	Motek Pupotes	Nek
Anbalak Anbalak	Limit for unintended stray radiation of 1 µSv/h at any easily reached point kept	lek Anbotek Anbotek	Anbot
12.2.2	Accelerated electrons	Potek Pupote We Pot	W N and
IF AND	Compartments opened only by the use of aTOOL	abotok Anboto And	otel N
12.3	Ultra-violet (UV) radiation	Conformity test under consideration	watoday.
Aupotek.	No unintentional and HAZARDOUS escape of UV radiation:	ok Anbotek Anbotek	ACTO N
Anbole	- checked by inspection; and	stell suborek Anbor	N
- 00	- evaluation ofRISKassessment documentation	Helk supplied Aupon	N
12.4	Microwave radiation	Anton	- V-
40.	Power density does not exceed 10 W/m²:	Aupolek Polisk	N.
12.5	Sonic and ultrasonic pressure	hupon botek	Vupo, es
12.5.1	Sound level	the Pupper Plantek	N
Pupour	No HAZARDOUS sound emission	otek Anbook Anbotel	Narib
tek Arbo	Maximum sound pressure level measured and calculated for maximum sound power level as specified in ISO 3746 or ISO 9614-1	upotek Aupotek Aup	tak N s
100,000	Instruction describes measures for protection	Pupolen Plup	N°oth
12.5.2	Ultrasonic pressure	anbores and	Na
Anbote	Equipment not intended to emit ultrasound does not exceed limit of 110 dB between 20 kHz and 100 kHz	stek Anbotek Anbotek	N probe
ok pri	Equipment intended to emit ultrasound:	Laboret Anbors Anti-	notely N
botek	Outside useful beam does not exceed limit of 110 dB between 20 kHz and 100 kHz	Anborek Anborek As	AnborN





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Clause	Requirement – Test	Result - Remark	Verdict
Mupate	true tok subotek billion by	ek anbuth kon	anborek
	If inside useful beam above values exceeded:	otek anbotek Anbo	N
anb	Marked with Symbol 14 of Table 1	orek Anborek Anbo	N
rek .	and following information in the documentation:	tun stak supotek tupi	N
rak	a) dimensions of useful beam	And tek supplier h	N
100	b) area where ultrasonic pressure exceed 110 dB	Another appoint	Ambol N
Aupo.	c) maximum sound pressure inside beam area	Anton ook abotek	N
12.6	Laser sources	stek Anbo ak horek	N
Anthe	Equipment meets requirements of IEC 60825-1	botek Anbore An	N AN

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	Notek
Pulp	Attached data/test reports demonstrate conformity	pole And otek Anbor	N Pupo
13.2	Explosion and implosion	Anboro Anti-	olek bi
13.2.1	Components	Anborer And	inbotek.
Aupoley	Components liable to explode:	Anbotes Anb	anberek.
Anbotek	Pressure release device provided; or	ak anboten Anbo	Notek
hupole	Apparatus incorporates OPERATOR protection (see also 7.7)	Jotek Anborek Anber	N Anbot
V. Vien	Pressure release device:	Anboro And otek ant	OLEK - BU
ole. I	Discharge without danger	Auporos Ame	<sup>Upotok</sup> N
Tupo <sub>ter</sub>	Cannot be obstructed	Aupotes, Turn	onto N <sup>M</sup>
13.2.2	Batteries and battery charging	K Puposes Vunn	VUD OLEK
Antrojer	If explosion or fire hazard could occur:	otek Anbotek Anb	· · · · · · · · · · · · · · · · · · ·
k probi	Protection incorporated in the equipment; or	hotek Anboter Ano	ok N
Stelk A	Instructions specify batteries with built-in protection	Anbotek Anbotek Anb	thorak N
Upolo	In case of wrong type of battery used:	Aupores Aug	arribolek
Pupale.	No HAZARD; or	Anbara Ant	Neek
Pupote.	Warning by marking and within instructions	stek Anbotes And	Nabole
Anbo,	Equipment with means to charge rechargeable batteries:	nborek Anbount Anbo	lek - Pulp
hotek bi	Warning against the charging of non-rechargeable batteries; and	Anbotek Anbotek Ar	N





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Clause	Requirement – Test	Result - Remark	Verdict
Pupote.	true tox supples trues of mot	ar Aubore. Fun	anborek
Bribotek	Type of rechargeable battery indicated; or	orek Anborek Anbo	N
4 snbol	Symbol 14 used	Lotek Anborek Anbo	N
itek on	Battery compartment design	Tun offer Pupoles Pupo	N
rak	Single component failure	And stek subolek Ar	N
up.	Polarity reversal test	Ann alek anbotek	Anbo N
13.2.3	Implosion of cathode ray tubes	No such device used	Pupo.
Aupo	If maximum face dimensions > 160 mm:	otek Anbourek	Fupo,
Aupo	Intrinsically protected and correctly mounted; or	Postely William Park Man	SK N PUP
lop but	ENCLOSURE provides protection:	Pupoley Pupo	ootek N p
polek	If non-intrinsically protected:	embatak Anbasa An	abotak
knbolek	Screen not removable without TOOL	oupotek bupan	Nex
abalak	If glass screen, not in contact with surface of tube	ek apolek Anbole	N

14	Components and subassemblies		Ρ "
14.1	Where safety is involved, components meet relevant requirements	Anbotek Anbotek An	P
14.2	Motors	Anbotek Anbo	- abouck
14.2.1	Motor temperatures	lak anbotek Anbo	- nbotek
hupole	Does not present a HAZARD when stopped or prevented form starting; or	ootek Anborek Anbe	N Anbo
otek An	Protected by overtemperature or thermal protection device conform with 14.3	Anbotek Anbotek Anb	Mey N M
14.2.2	Series excitation motors	hotek Anbote	Up.
Aupotek	Connected direct to device, if overspeeding causes a HAZARD	K Anbotek Anbotes	Anbotek
14.3	Overtemperature protection devices	potek Anbore Ans hotel	- N <sub>unbol</sub>
knb.	Devices operating in a SINGLE FAULT CONDITION	abotek Anbote And	tell N an
stelk b	a) Reliable function is ensured	apolek Mapole K	N Vertex
nbolok	b) RATED to interrupt maximum current and voltage	Aupolak Pupole V	AnboiN
VUDO.	c) Does not operate in NORMAL USE	W William W Wolek	PLN <sub>2462</sub>
Anbo	If self-resetting device used to prevent aHAZARD, protected part requires intervention before restarting	nbotek Anbotek Anbotek	Noboli lek krit
14.4	Fuse holders	Ambolos Amo	pole <sup>k</sup> N
polek	No access to HAZARDOUS LIVE parts	Vupoley Yupo.	Node





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Clause	Requirement – Test	Result - Remark	Verdict
Pupo	tol and all and the sol	ar and	amboro.
14.5	Mains voltage selecting devices	otek Anbotes And	Notor
anbo	Accidental change not possible	world Amborek Ambo	N N
14.6	Mains transformers tested outside equipment	tun otek supotek tup.	N
14.7	Printed wiring boards	And stek anbotek A	N
Anbotak	Data shows conformity with V-1 of IEC 60695-11-10 or better; or	Antolek Antolek	Anborek
Anbotan	Test shows conformity with V-1 of IEC 60695-11-10 or better	sterk Anborak Anborek	Nache
tak bu	Not applicable for printed wiring boards with limited-energy circuits (9.4)	Jacob M. Aubotek Aubo	Potek N Pup
14.8	Circuits or components used as TRANSIENT OVERVOLTAGE limiting devices	kupatek Aupate M	anbote <b>N</b>
Anbolok	Test conducted between each pair of MAINS SUPPLY TERMINALS	er anbotek Anbotek	An'N
pulpat	No HAZARD resulting from rupture or overheating of the component:	botek Anbotek Anbo	N Ambr
VIII)	- no bridging of safety relevant insulation	Pupoten Pupp.	otek N P
otek.	- no heat to other parts above the self-ignition points	Anbotek Anbotek	Anbote N

15	Protection by interlocks	and otek anborek	bupp.
15.1	Interlocks are designed to remove a hazard before OPERATOR exposed	botek Anbotek Anbote	Nambo
15.2	Prevention of reactivating	Windself Wholes Win	N
15.3	Reliability	Polek Pupolen	Up.
The Polek	Single fault unlikely to occur; or	k wolek aupotek	Amban N
Pilip	Cannot cause a HAZARD	All dok subolek	PN

16	HAZARDS resulting from application		Char B Mup.
16.1	REASONABLY FORESEEABLE MISUSE	Aupolo, Aug.	Total N b
unbota hatek	No hazards arising from setting not intended and not described in the instructions	Anborek Anborek	pribo N <sup>*</sup>
Anbotek	Other cases of reasonable foreseeable misues addressed by risk assessment	otek Aupotek Aupote	Ann Amboriak
16.2	Ergonomic aspects	abolek Autore Autore	ek P pribo
otek by	Factors giving rise to a HAZARD the RISK assessment is reflecting those aspects:	Autolek Pupole But	pořek P
upoter	a) Limitation of body dimensions	anborer Anbo	Prode





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Clause	Requirement – Test	Result - Remark	Verdict
Aupore	hat also had be not	ak Bupone Pop Tek	anhorek
puppier	b) Displays and indicators	orek Anbores Anbo	P
5,000	c) Accessibility and conventions of controls	Polek Pupolek Wupo	Р
ek or	d) Arrangements of TERMINALS	The stak suppley tupe	P
rak	anbotek Anbotek Anbotek	And tek subolek Ar	Do.
7	Risk assessment	Anna rak	Anbois.
Anborsk	Rish assessment conducted, if hazard might arise and not covered by claused 6 to 16	Fully covered by clauses 6 to 16	an N
Anbat	Tolerable rish achieved by iterative documented process covering the following:	Joolek Antonek Anton	ek N
, bu	a) RISK analysis	Authoria, burn	potely N
ole.	identify HAZARDS and estimate RISKS	Anbores Ano	NapoteN
'upoles	b) RISK evaluation	Antores Anto	Nek
Anbalak	plan to judge acceptability of resulting risk level based on the estimated severity and likelihood of a rish	etk Anbotek Anbotek	N <sub>Allborr</sub>
E DUL	c) Rish reduction	shotok Anbore Ann	otel N
otek	Initial risk reduced by counter measures:	abotek Anbote An	N
nbatak	Repeated risk evalution without new risks introduced	Anbotek Anbotek	No. No.
Anbora	Risks remaining after risk assessment addressed in instruction to responsible body:	of Anborek Anborek	N
, ob	Information contained how to mitigate these rishs	atok anbotek Anbore	N
Vak. b	Following principles in methods of risk reduction applied by manufactuer in giver order:	Anbotek Anbotek Anb	N
patek	1) RISKS eliminated or reduced as far as possible	anborek Anbo.	N <sup>M</sup>
Anbotek otek	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	oter Ann	N. mark
iek a	Indication of particular training is required	Solek Anboten Anb	N
potak	Specification of the need for personal protective equipment	Mupoley Vapoley V	N
Anbore.	Conformity checked by evaluation of the risk assessment documentation	W Pupole burn	Andres

ANNEX F	ROUTINE TESTS	enbotek.	AUPOL	bus mater	purpo	Bur Plus
Die Die	Manufacturer's declaration	k spotek	pupara	Pin-	63	Poles N



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4.4.2	Table: Summary of single fault condtions			dek substek P
Subclause	Titel	Not apply	Carried out	Comments
4.4.2.1	Single fault conditions not covered by 4.4.2.1 to 4.4.2.12	Weyr X	Anbotek	Anboter Anbote
4.4.2.2	Protective impedance	X	VIII OLO	Ann orek ant
4.4.2.3	Protective conductor	- Hafak	X	bus misk
4.4.2.4	Equipment or parts for short-term or intermittent operation	X	it bit	poter Anbotek
4.4.2.5	Motors	X	0,-	nofak - Anboren
4.4.2.6	Capacitors	X	Vupp.	Prince Publish
4.4.2.7	Mains transformers	Joseph	X	u work and
4.4.2.8	Outputs	Anbotek anbote	X	Short-circuit were applied to all outputs. No hazard.
4.4.2.9	Equipment for more than one supply	anio	Х	Anbo ak botek
4.4.2.10	Cooling	X	nbolek	Anbor -botek
4.4.2.11	Heating devices	Х	Modek	Anbor Abo
4.4.2.12	Insulation between circuits and parts	X	- abote	k Anbor Ann
Note:	potek Aupon be alek proposes	Pulpa	- NO	otek Anbores Ar

5.1.3 c)	TABLE: M	IAINS supply				Nath Nath
Anboter	Marked rat	ting (V)	Vipo, b		Proposes - Pro	in the state of th
pupole	Number of	phases	Wilpor-	bu.	Anboler	Pupp
ik ant	Frequency	′ (Hz)	e <sub>k</sub> Vipo,	by Motel	Asholan.	Anb
otek	Current (m	ıA)	Cotek Vupou	Par.	Jok Anbotek	Plup
Vater	Power (W)	)	- Andrew	Prince	hotek - Anboth	2
Yun Tolek	Power (VA	N)	pr pr	DOJe. B	"otek oul	parel.
Test No	Voltage (V)	Frequency (Hz)	Current (A)	Power in (W)	Power in (VA)	Comments
	rick - anbi	- Plus	A POTEN	Vupo-	- Nek	Pupos - Will
Note(s):	Note N	aborek Anbor	ok hotek	Anboter	And	anbotek Anb

5.3	TABLE: [	Durability	of marking	gs				P
	Mark	ing metho	od (see note	<del>)</del>	А	.gent		
1) Adhe	sive label	Ney-	pupotek	Pupo, My	A Water	Pup	otel.	anboral
2) Ink pr	rinted	HOTEL	Anbotek	Pupo,	B Isopropyl alcoho	I 70%	hotek	prio
3) Laser	marked	aborek.	Anhore	Anbo otok	C (specify agent)	-df-	bu. Toolel	L 9
4) Filmo	oated (plastic	foil conti	rol panel)	oten bus	D (specify agent)	yo.	by.	Neg-



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150	La GY	astic (moulded in) pplicable include p	rint method, label ma	aterial, in		cify agent) t type, fixing me	thod, adhesive and
		marking is fixed.	v sotely	0.000	bar	da You	DIEL BLUD
		Marki	ng location		I	Marking method	(see above)
b'Upp.	- Ide	entification (5.1.2)	ough Pills	1974	14°"	Anbo sek	-abotek Anbo
PUPO	- Ma	ins supply (5.1.3).	Opolo Pula	<u>ئ</u> دئۇ	Toorek	VILDO.	Abotek An
tok bi	- Fu	- Fuses (5.1.4):				bupo.	abatek.
botak	- Terminals, connections and operating devices (5.1.5)					tek Aupo	rek Anborek
Ann.		ritches and circuit-b	Dr.	pupole		wak w	ipoley bupo.
Amb	J - Do	uble/reinforced equ	uipment (5.1.7)		pter	PLUT VIEW	Anbotek Anboy
Arres	- Fie	ld-wiring TERMIN	AL boxes (5.1.8)	ж	Upole	Andrew	anbotek ant
Dr. Du	- Wa	arning markings (5.	2)		1 pulposes	bus - 40k	hotek
Metho	od	Test agent	Remains legible Verdict	Label Ver		Curled edges Verdict	Comments
Ambo.	bes	A, B	P. P.	anbala!	D DE	P	hotek Ribote
Note(s):	b.	19% 199	Isu buen	100	otek	pupo, pu	rek hote

6	TABLE: Prot	ection agai	inst electri	ic shock					otel N M
potek po	Block diagram	n of the syst	em	Phip	:	- nbore			
- abotek	Pollution degree:						olek bu		
abovek.	Overvoltage is	nstallation c	ategory	18 p.	Anbo.	, III	abotek	Pupole	
1 11/00		Max. working			te 3)	Clearan ce (note	Test voltage	Comments	
	(note 1)	voltage (note 2)	PWB	CTI	Other	CTI	3) mm	(note 2)	
otek bri	pos - bus	notel-	Anboton	VIJE	, 1/SP	a elberal	· bupo,	- ku.	-dates
BI = BASIC DI = DOUB PI = PROTE RI = Reinfo	Type of insulation INSULATION LE INSULATION ECTIVE IMPECTIVE IMPECTIVE INSULATEMENTARY INSU	ON DANCE ION	IOTE 2 – T		oltage (p	ulse)	NOTE 3 – II CATEGORI CATEGORI DEGREES should be s "Comments	ES (OVER ES) or PO which diffe hown unde	VOLTAGE LLUTION or from these

6.2	TABLE: Dete	rmination of accessible p	parts	P
1	Item	Description	Determination method	Exception under 6.2.1
Aubotek	Anbores Anborek	Examination	The jointed test finger (see figure B.2) is applied in every possible position	k Anbore Anbore
Note(s):	Jolek Bupo.	tek shorek An	pare Annualte Anti	oten Anbo wek





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6.5.2.4	TABLE: Impedan	ce of protective bondi	ng of plug-connected equ	ipment N
ACCESSIB	BLE part under test	Test current (A)	Voltage attained after 1 min (V)	Result
Aupor	by. Pallok by	poter And	Anbotek - Anbo	hotek - Anbore
Note(s):	k shotek	Ambores Amb	anbotek Anbot	ik hotek Anbote

	TABLE: Impedance equipment	ce of protec	ctive bondi	ng of permanent	ly connecte	d	A Variate
ACCESSIB	LE part under test	Voltage a	ttained (s)	Time for voltage below allowable		Res	ult
bu.	Anboten An	arek .	- Nootek	Wipon -	polek.	Pupoten -	Pup. wiek
Note(s):	Anboren	Anbe	sabotak	Auport	botek	Anbotest	Pupp

6.7	TABLE: I	nsulation re	equirements			oo <sub>tot</sub> N N
8	Resistanc	e to mecha	nical stresses	aborek pribati	anbotok	
10.5.1	Integrity of	of CLEARANC	ES and CREEPAGE DIS	TANCES	Jores pro-	N
	Location		initial CREEPAGE DISTANCE (mm)	Initial CLEARANCE (mm)	Maximum working voltage (V)	Comments
ek or	Polek BL	lan.	aborek_ Anbore	N NOTOK	anbotek	upo lak
Note(s):	Aupolek	Buppy.	Polek Pupe	And And	k anbotek	Pupo, Py
	cal tests, e (N)	Static	Dynamic	Drop test, normal	Drop test, hand- held	Comments
w potek	- Pupolis	FULL	ofek ankofek	Aupo	potek - Aupote	Ant grak
Note(s):	sk Mpol	Pup	rek appoint	Aupon 1	holek Anbo	des buen

6.8 TABI	E: Dielectric strengtl	n tests for protection	against the spre	ad of fire P
Location	Working voltage (V)	Test voltage (V)	Result	Comments
Input to accessib part	e Anbotek	DC 500V	otek PAnbolek	Ambot P Ambot

6.10.2	6.10.2 TABLE: Cord anchorage tests							
Loc	cation	Mass kg	Pull N	Verdict	Torque Nm	Verdict	Comments	
Puppley	- Pupp.	n. abotek	- Anb	210 Pt	na Horoz	lotek - Volgo	wak - obotek	
Note(s): No	cord provided	100	OK P	upole.	Pur Puek	ambately prob	abott	





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8 TABLE: Resistance to mechanical stresses								
Llocation Static Dynamic Drop test, Drop test, hand-held Result						Comments		
Enclosu	ire And	Hay bur	Pass	potek - Pupe	" Par	Pass	anti-	

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  $700 \text{ kg/m}^3$ .

9 T	ABLE: Protection against the spread of	fire	Piek Piek
Item	Source of hazard or area of the equipme considered (circuit, component, liquid et		Comments
Plastic parts	Anbo, We water Wubole.	9a	00. br.
Note(s):	otek Anbo	les Publish	Aupo, b

9.3.1	TABLE: Containment of fire within the equipment	nt	PU.
14.7	Printed wiring boards	Her Anbotak	Noore
Pupper	Material tested:	potek Anbu tek spok	
St. Mup.	Generic name :::	Pulpotok Puppy, Pak	
otak p	Material manufacturer:	anbotek Anbo	
Anbotek.	Type designation:	Ambotek Ambo	
unbatek	Colour		
rupole <sub>k</sub>	Conditioning details:	otek Anbotek Anbot	
otek Anbo	Thickness (mm)	1 – 2 –	
anbotek Anbotek	Duration of flaming after first application (s):	3 - 1 - 2 - 3 -	
Hek Aupo	Duration of flaming plus glowing after second application (s):	1 – 2 – 3 -	
Anbotek Anbotek	Specimen burns to holding clamp (Yes/No):	1 – 2 – 3 -	
Anboth Anboth	Cotton ignited (Yes/No):	1 - 2 - 3 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4	
Note(s):	Anbotek Anbotek Anbotek	3 - Antorok Antorok Antorok	,eX





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9.4	TABLE: Limited	Npokell N				
nbotek Anbotek	Test details: 1 –L current (A); 4 – n circuit separation	naximum powei	r(VA); 4 – overloa	ad protection af		Anbotek Anbotek
1	2	3	4	5	6	7
·	Di-	- Spaker	D2/0-	- NEK	P 420, - by.	to - day
Note(s):						

9.5	TABLE: Requir	TABLE: Requirements for equipment containing or using flammable liquids					
Anborek		Test details: 1 –Type of liquid; 2 –flammable liquids (b. quantity); 3 – flammable liquids (containment); 4 – comments					
1		2	3		4		
Ac I	POLEN PUDO	Half.	upo) Al	HOLEN BUD			

10	TABLE: T	emperature m	easurements			Anbb.
10.1	Surface to	emperature lim	ts - NORMAL CO	NDITION and / or SIGN	NLE FAULT CONDITIO	N P
10.2	Temperat	ure of windings	- NORMAL CONDI	TION and / or SIGNLE	FAULT CONDITION	nbon k Nambo
10.3	Other tem	perature meas	urements	botek Anboten	Pup.	antiotok P An
Operating	conditions:	Normal workin	g <sub>Mbox</sub>	horek Anbore	and and	
Aupoley	Frequency	/ (Hz)	Anbor	min - Amb	otor And	· -
Anboren	Duration (	h, min)		1	hour 50 mi	n.,
pupole	Voltage (V	/)	lek Mpose	Pill Pills	Anborer Anb	
Anbr	Ambient to	emperature Ta	(°C)	: 28°C	Aupolan P	
upotek k	maximum		m + 40°C – Ta (°	asured temperature <sup>o</sup> C); 4 – maximum al		
1		2	3	4	5	6
PCB	Anbo	otek - Anbo	52.3	100	Anbotek P Anb	Potek Pupate
Terminal	matale by	unbotek At	51.6	120	Aribon P	Anbotek - Anb
Screen	nupotel-	Anborek	44.8	75	P	Anborek P
Enclosure	Pupoley.	Aupar Polek	42.7	120	potek P probotek	Anbounder.
Note(s):	Anbore	r 500	ak anbatak	Vupo.	-abatek patro	Am -otal



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10.2	TABLE: Temp	perature of res	sistance m	ethod tempe	rature measu	rements	la otel <sup>4</sup> N
4.4.2.7	MAINS Transfo	ormers	upon	Pin.	pupple	Pub.	N N
14.2.1	Motor tempera	atures	PUPOLO	Pura Polsk	anbotek	Pupo.	N. N.
Operating	conditions:	a polek	Pupole	y 200	tek Wilder	Nr. William	.ve/
anbo	Frequency (Hz	z)	- palloc	Ve Distr	world and	oren ani	200
tek on	Duration (h, m	in)	Ye <sub>K</sub> .	pole b	hour	entrotes min	Pup.
-otek	Voltage (V)	,	Nata K	*upote.	N week	anbolek	Þ.
- Hak	Ambient temp	erature Ta₁/Ta	a <sub>2</sub> (°C)	Pupose.	Pur Malek	°C(initial/fina	al)
Anbotek	Measurements 6 –T <sub>max</sub> (°C); 7			- R <sub>cold</sub> Ω; 3 -	R <sub>warm</sub> Ω; 4 – Tı	(K); 5 – T <sub>c</sub> (°	C);
1	2	3	4	5	6	7	8
ate - pri	- All -	olak - ouko	164 bu	-0/r-	10018k 1	Mpor - P	40/ <del>-</del> 61

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

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

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

10.5.2	TABLE: Resistance to	heat of non-metallic encl	osures	otek P A	
jotek j	Test method used:	Aupores Pup	See below		
abotek	Non operative treatme	nt	. [ \lambda ] made made	Pak	
Chatek	Empty ENCLOSURE	K Wpo <sub>tes</sub> Yup	. [ \( \frac{1}{2} \)	Porch	
abole	Operative treatment	alak Majagan Pup,	· [ tol abovek Amborn	4 par	
	Part	Test temperature (°C)	Duration (h, min)	Verdict	
-ole	Enclosure	125	Aribo ak 1h botek unt	Р	
N. In	Dielectric strength test	(6.8)	. 500 V r.m.s./peak/d.c	upolog B	
Note(s): No	hazardous live parts sha	ll be accessible	unbo, anbotek	Anboten	
10.5.3	10.5.3 TABLE: Insulating materials				
10.5.3a)	Ball pressure test	ak abatak Ar	pole And mek anbole	Paribo	
800	Max. allowed impression	on diameter	2 mm	Bak - Bu	
	Part	Test temperature (°C)	Impression Diameter (mm)	Verdict	
100,00	Terminal	125	Anbore 1.3 Anb	anboP*	
Pupoles	PCB	125	Arribotto 1.0 Arrib	Potek	
Aupaten	Enclosure	125	1.4	Popot	
Note(s): No	o hazardous live parts sha	ll be accessible	anbotek Anbotes Anb	tek bu	
10.5.3	TABLE: Insulating mate	erials		notel N	
10.5.3b)	Vicat softening test (IS	O 306)	abolek Anbore A	N	
	Part	Vicat temperature (°C)	Thickness of sample (mm)	Verdict	





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po584	Ando	anbotek.	William -	bu., Hotek	Anborne	Dupa	anbotek-	þ
Note(s):	Anbu	Anbotek	Anbore	Pin Pinotek	Ambores	Pupp apolek	Anbotek	

11	TABLE: Protection against hazards from fluids						Nopos		
tek bulo	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	
-4c	Hatek	NUPO.	- 76g	e " " pa,	BUS	-N	motel	Pupp.	

11.7.2	TABLE: Leaka	ge and rupture at	high pressure			ek N Aupo
Part	Maximum permissible working pressure (Mpa)	Test pressure (Mpa)	Leakage test Yes / No	Burst test Yes / No	Commo	ents
Arm atak	nn <del>ostek</del>	Aupo,	-wotek pr	DOLE. BULL	otek - unbotek	-4400
Note(s):	iek anbotek	Wipp.	Pin spolek	Pupotes Di	ntek snbc	tak Mupo
11.7.3	TABLE: Leaka	ge from low-pres	sure parts			ofok N An
poter an	Measurements:	1 - ; 2 – (Pa); 3 –;	4 - botek	Wilpola	PLUS CHEK	anbotek.
	Part	Test pressi	ure Leak	(age (Yes/No)	Comm	ents
Anboren	Anh.	nobolek An	DOI - WI	notek- Anbot	E VILL	Anbolok
Note(s):	PUD.	abotek	Mapage Ni	hotek an	poler Anbo	ok kabati

12.2.1	TABLE: Ioni	zing radiation			N			
Location Measu		Measured	red values µSv/h Ve		erdict Co		omments	
Yun Viely	- anboyer	bugg.	- woodey	Pupole	zur - otek	oupotely.	- Pupo.	
Note(s):	anbotok	Vupo,	abotek	Pupole,	P.Up.	anborek	bupo.	
12.5.1	TABLE: Sou	nd level mea	surements				Naribo	
	Location		Measured	values dBA	Calc	ulated maxim pressure le		
Maron	Aupote. b	Uh.	* Upolok	upo, b.	-to Prall	Anbote.	Ann	
Note(s):	VLPO16	Ann	supotek.	Pupo, or b	"Potsk	bupola.	Amb	
12.5.2	TABLE: Ultra	asonic press	ure measuren	nents			P. N	
Location			Measured values			Comments		
		dB		kHz				
in bu	-otek M	Polen PL	10c	abotek Anto	bu.	world*-	Amboren	
Note(s):	Vun Viek	napotek.	Aupor	polek M	polor	pro-	Anborek	





	TABLE: Batteries tes	sts			No No
Kupotek	Battery load and char	ging circuit diagram:	k anbo	Yek Yupo	
anbotek	Battery type	ninek kupain bur	osok w	polek Pupo,	Ve
· hoden	Battery manufacturer	Parage Page Page	Yek	Aupotek Wapo	
tek vu	Battery model		Napa Welk	unpolek bi	100
riak	Battery catalogue No.	Par Paris Paris I	bulb atek	anbotek	h
No.	Battery ratings	W. Cately Bulgates.	PLUCA	ek anbotek	
Vupo.	Reverse polarity insta	lment test	buga	wek sobotek	prN
Single	component failures		Verdic	t	
	Component	Open circuit, result		Short circuit,	result
lek bub	tek- mbolek	Fulpoir A Polek	PUPOLEK	bulbo	abotek pr
Note(s):	Aupon W. Opolek	Anbore, And Motek	anbotak	Anbo	abotak

14.1 T	TABLE: Components				Potek
Object/part N	No.	Manufac- turer/trademark	Type/model	Technical data	Mark(s) of conformity
VUI.	Ne)k	coporek pr	po, bu motely	Pupotes, Vun	ibotek bi
DOJON PUR	, tel	abotek	Anborn k And horel	Wilpoyer Wilson	unbotek.
anbalek A	'upo,	ik abotek	Anbora k An	lek Pupotey Vupo	abotek

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

14.3	TABLE: Overtemperature protection devices					
Reliability to	Reliability test:					
Component		Type(see note) Verdict		Comments		
Yun Viely	Vupotek	Pupo, - Polek	Pupole, - Vun	Pupotek - Tupo		
Note(s):	botok	Pupo, Mek	Pupoles Pup	polek Pupo		

NSR = non-self-resetting (10 times)

NR = non-resetting (1 time)

SR = self-resetting (200 times)

14.6	TABLE: Mains transformers tested outside equipment					
Pup. alek	Type:	K Vuor otek Pubotok				
Priling.	Manufacturer:	ore And abotek Anbotek				
Ney by	Temperature protection class of the lowest RATED winding (class or maximum RATED temperature):	mbot Anbotek Anbo				
potek	Winding identification:	anborek Anbor A				





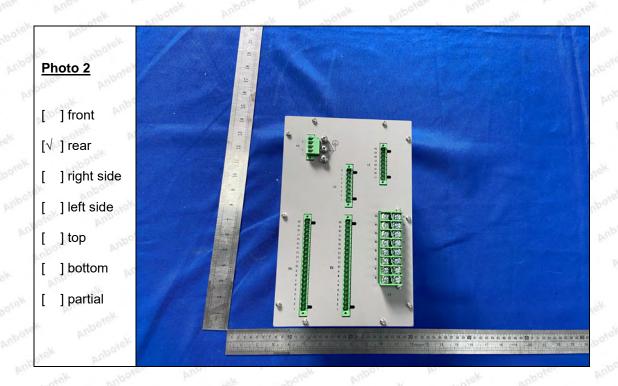
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Oren An	Type of protector for winding:	Anboren Anb	alt p
		Short circuit	Over load
Aupore	Elapsed time	1s	Cotek 1s Anhotek
pribote	Current, primary (A)	otek mapores	And Anbote
Puppy	Current, secondary (A)	apolek hupole	ant antek ant
tek Ani	Winding temperature, primary (°C)	Pupoles Pupoles	Varia Liek
botek	Winding temperature, secondary (°C):	potek Anbor	Pun-
botek	Tissue paper/cheesecloth test	r nousk bu	John And John
bu. Polek	Voltage test	ak hotok	Anbotes Anti-
Note(s): No	any transformer used.	in by	Aupoter Pup

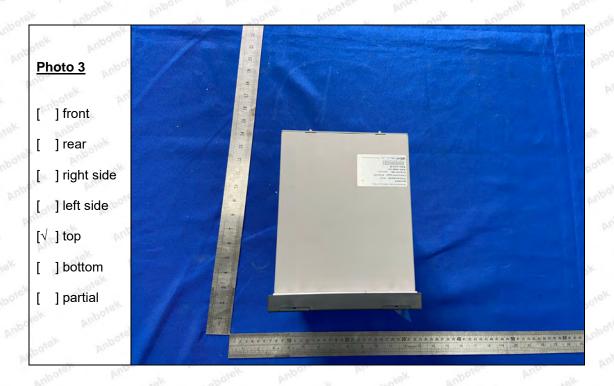


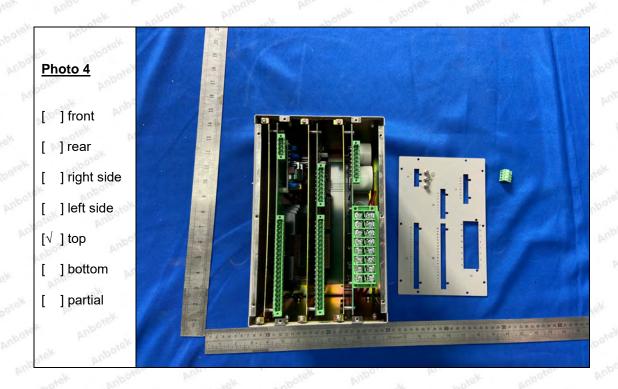








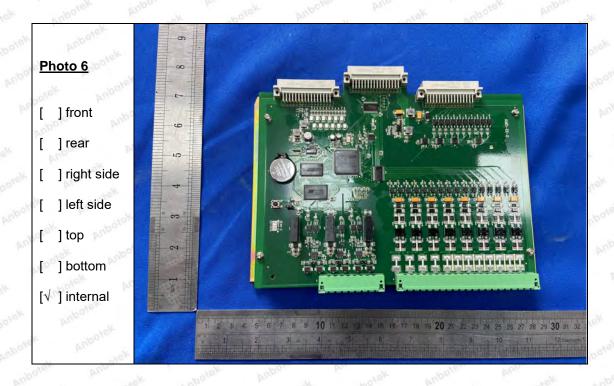




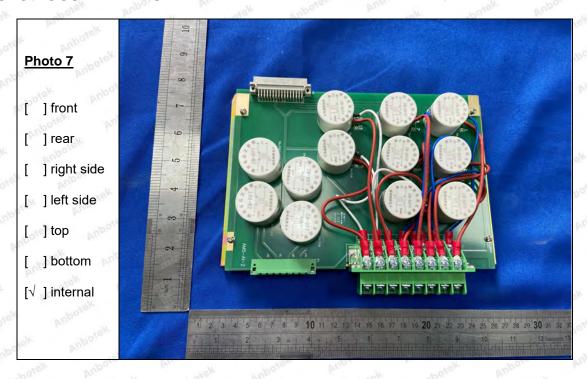


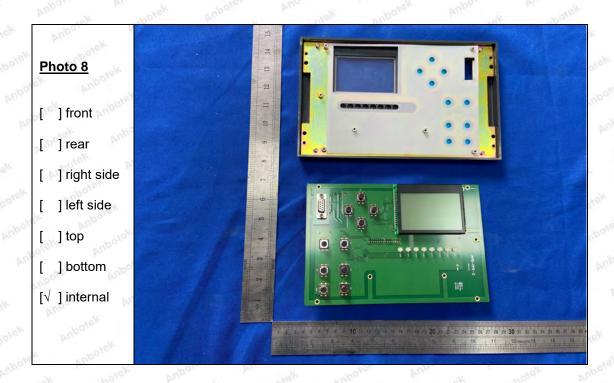






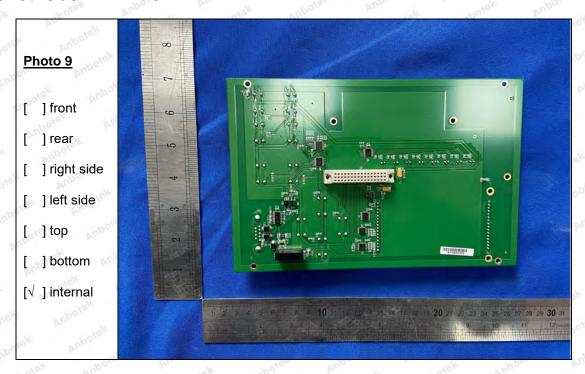


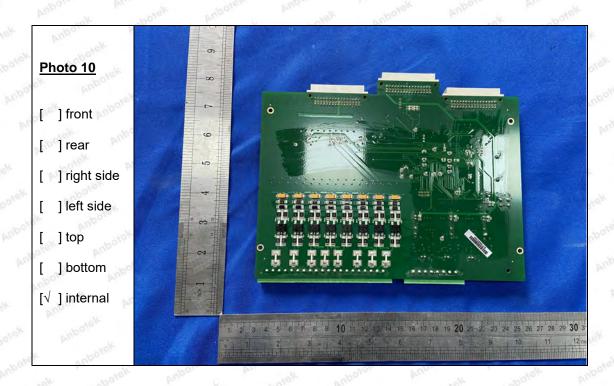






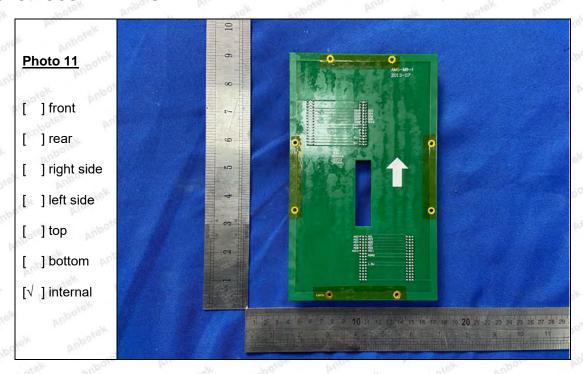












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\*\*\*\*\* End of Report \*\*\*\*\*