

Report No.: 18250SC00088401

# **Test Report**

Client Name : Acrel Co., Ltd.

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

Product Name : Muli-function Power Meter

Date : Nov. 13, 2020

Shenzhen Anbotek Compliance Laboratory Limited
\* Approved \*

Sanko Chen

Jot Th



#### **TEST REPORT**

#### EN 61010-1

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

Report reference No. ...... 18250SC00088401

Compiled by .....: Sanko Chen

Approved by .....: Jeff Zhu

Date of issue .....: Nov. 13, 2020

Contents .....: 50 pages

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

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

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

Guangdong, China.518128

Testing location .....: Same as above

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

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

Test specification

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

Test procedure .....: LVD test report

Type of test object

Description ...... : Muli-function Power Meter

Trademark.....: Acrel

ACR10R-D16TE4, ACR10R, ACR10RH, ACR10R-D10TE4, Model/type reference .....:

ACR10R-D24TE4, ACR10R-D36TE4, ACR10R-D16TE, ACR10R-D10TE, ACR10R-D24TE, ACR10R-D36TE,

ACR10R-D110RE4, ACR10R-D120RE4, ACR10R-D140RE4, ACR10R-D190RE4, ACR10R-D16TE4/P1, ACR10R-D110RE4/P1

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

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

Province, China

Same as manufacturer Factory....::

Same as manufacturer

Input Voltage AC57.7/100V(100V);AC220/380V(400V) Rating .....:

Input Current AC 80A,120A,200A,etc

Freq.50/60Hz





#### Test item particulars

Pollution degree.....: III

Protection degree...... Class II equipment

Operating conditions ...... Continuous operation

Connection to supply mains ...... None

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

#### Possible test case verdicts

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

- test object does meet the requirement ...... P (Pass)

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

#### Testing

Date of receipt of test item ...... Oct. 30, 2020

#### General remarks

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

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

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

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

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

Muli-function Power Meter Model No: ACR10R-D16TE4

Rating: Input Voltage AC57.7/100V(100V); AC220/380V(400V)

Input Current AC 80A,120A,200A,etc

Freq.50/60Hz



#### Made in China

Jiangsu Acrel Electrical Manufacturing. Co., Ltd.

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

Importer: XXX

Importer: XXX
Address: XXX



### Page 4 of 50

ooter	Anbotek Anbotek	Anbor EN 6	1010-1	Anbo	inbotek P
Clause	Requirement – Test	Anbo.	Result - Re	mark	Verdict
Vupogo	Art hora	Ano	stek Anbo	Pro-	-hores

tek anbore Arr ak hote	And	rek popor
TESTING IN SINGLE FAULT CONDITION	otek Anbotek Anb	Popole!
Fault tests	hotek Anbotek	nbo ek P
Application of fault conditions	in otek anbotek	Anbo P
Single fault conditions not covered by 4.4.2.1 to 4.4.2.12	Anbotek Anbotek	Arbotel N
Protective impedance	Anbote. Anti-	tek Niek
Protective conductor	tek Anbotek Anb	N <sub>botek</sub>
Equipment or parts for short-term or intermittent operation	hotek Anbotek A	Ambolik N Ambol
Motors	Anbore And Motek	ANDOTER N AN
Capacitors	Anbore K Ans	anbot N
Mains transformers	Anbores And	rek ant Prek
Short circuit	lek Anbores And	nek Nootek
Overload	hotek Anbotes Ar	N N N
Outputs	botek Anboten	Anti-
Equipment for more than one supply	Anbotek Anbotek	An TelP
Cooling	Am Lotek Anbotek	N <sub>A</sub>
Heating devices	k hotek Anbot	Anb N tek
Insulation between circuits and parts	k hotek an	potek AP
Interlocks	poter Ans wotek	Ambore Nambo
Voltage selectors	Anbore, And	Anbotek N Anb
Duration of tests	Anboter And And	nborek
Conformity after application of fault conditions	Anbotes Anti-	y aboP <sup>y</sup>
	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

5 Anbotek	Marking and documentation	otek Anbotek Anbo	Pobotel
5.1.1 <sub>amb</sub> o	General	botek Anbotek Anbo	rek P
otek as	Required equipment markings are:	anbotek Anb	rek_
nek	Visible:	And otek Anbotek P	hoo. P
and atek	From the exterior; or	And otek anbotek	Aupo P
Anbo	After removing a cover; or	And stek anbotek	MUN
AUDO	Opening a door	ster Anto stek anbotely	Nupor
V.Upo	After removal from a rack or panel	nbotek Anbo tek nbo	lek N Anbo
otek An	Not put on parts which can be removed by an operator	Anbotek Anbotek A	potek N Ar
utek .	Letter symbols (IEC 60027) used	Anti-	Anbo P

**Shenzhen Anbotek Compliance Laboratory Limited** 

Hotline 400-003-0500 www.anbotek.com



### Page 5 of 50

100	71 40. A	- NOIL	186
Clause	Requirement – Test	Result - Remark	Verdict
Aug	Craphia aymbala (IEC 61010 1: Table 1) used	And otek Anbotek	P o
5.1.2	Graphic symbols (IEC 61010-1: Table 1) used  Identification	otek Anbo habatek	Pupo,
5.1.2	The market and the stack	upotek Aupo kek vupo	P P
sek ant	Equipment is identified by:	Anborek Anbo. A.	notak
botek	a) Manufacturer's or supplier's name or trademark	Authorisk Aupo, tek	P
Anbotek	b) Model number, name or other means	unbotek Anbore	Ann P
h. abotek	Manufacturing location identified	tek nbotek Anbote	₽U, <b>b</b>
5.1.3	Mains supply	, Anbotek Anbotek	hup.
V. V.	Equipment is marked as follows:	abore And borok Anbo	ISK AN
In. Will	a) Nature of supply:	Anbores And	botek
boten p	1) a.c. rated mains frequency or range of frequencies	Anbotek Anbotek	AnboreP Aek
	2) d.c. mark with symbol 1 of Table 1	And sofek Anbotek	AnbP.
Ann	b) Rated supply voltage(s) or range	ler And otek Anbotek	₽ <sub>po</sub> ,
Anb	c) Max. rated power (W or VA) or input current	botek Anbo	ek Pant
otek Aup.	The marked value not less than 90 % of the maximum value	Anbotek Anbotek An	otek N
otek	If more than one voltage range:	Ann otek Anbotek	Yupe N'k
<b>Aug</b>	Separate values marked; or	And otek Anbotek	Anbon .
Anbo	Values differ by less than 20%	Anbotek anbotek	N
Anbo	d) Operator-set for different rated supply voltages:	potek Anbo	Anb
Anio	Indicates the equipment set voltage	Anbotek Anbo stek onb	otek N P
otek Ar	Portable equipment indication is visible from the exterior	Anborek Anborek	inpotekN
Tun Puller	Changing the setting changes the indication	Ann Lotek Anbotek	Aupa,
Anboiek	e) Accessory Mains socket-outlets accepting standard MAINS plugs are marked:	otek Anbotek Anbotek	Anbor
ak Anbo	With the voltage if it is different from the mains supply voltage	inbotek Anboies Anb	Tek N
N. M.	For use only with specific equipment	Anbors An Motek D	ipotek N
nbotek	If not marked for specific equipment it is marked with:	Anbotek Anbotek	Anbotek hotek
abotek	The maximum rated current or power; or	rek obotek Anbotes	N
, both	Symbol 14 with full details in the documentation	ek abotek Anboten	N
5.1.4	Fuses	nbor All notek Anbo	P
50. PU,	Operator replaceable fuse marking	Aupone Aur	N N





### Page 6 of 50

Clause	Requirement – Test	Result - Remark	Verdict
Ciause	Requirement – Test	Result - Remark	verdict
5.1.5	Terminals, connections and operating devices	ok botek Anboten	Pare
5.1.5.1	General	ore Arm botek Ambatel	P
notek An	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators marked	Anbotek Anbotek Anb	potek P
notek	Insufficient space, symbol 14 used	hotek Anbotek	And Nek
Anbotek	Push-buttons and actuators of emergency stop devices and indicators:	tek Anbotek Anbotel	Anborel Amborel
Anbore	used only to indicate a warning of danger or	spokek Aupores Aug	REY N AND
lek but	the need for urgent action	abotek Anbore And	LOYOF N
botek	coloured red	abotek Anbores Ar	N N
botek	coded as specified in IEC 60073	abotek Anbotes	Nek
Anbotek	Supplementary means of coding provided, if meaning of colour relates (see IEC 60073):	ek Anbotek Anbotek	Anbotek Anbotek
Aupon	to safety of persons; or	botek Anbor An	ek N <sub>Anbo</sub>
ek Anb	safety of the environment	upotek Anbors Am	otek N A
potek p	Indication of emergency stop devices	anbotek Anbote An	word N
5.1.5.2	Terminals	abotek Anbote	Pur Polsk
nbotek	Mains supply terminals identified	ek nbotek Anbote	Notek
abotek	Other terminal marking:	tek abotek Anbore	V Pur
2/4 ~ 1/0°C	a) Functional earth terminals (symbol 5 used)	Do. W. Społek Wupot.	Name
. ak	b) Protective conductor terminals:	Anbo, ak abotek Ant	P An
, o, b	Symbol 6 is placed close to or on the terminal;	Aupo, W. W. Polsk	nbore P
Anbor ak	Part of appliance inlet	Aupo, Ar Potek	AnboN
Anbors	c) Terminals of control circuits(symbol 7 used)	ek Anbor ak hotek	A.Notes
k Aupor	d) Hazardous live terminals supplied from the interior	otek Anborek Anbore	Aupor
rok p	Standard mains socket outlet; or	Tupo, Wak Thotak Wup	N N
o. A.	Ratings marked; or	Aupon M. Apotek	N N
"Upo,	Symbol 14 used	Aupon Mr. Postek	Anbo'N
5.1.6	Switches and circuit-breakers	Anbore Anstek	AT Notes
Aupore	If disconnecting device, off- position marked	otek Anbot An Hotel	Napore
Anbor	If push-button used as power supply switch:	nbotek Anbote An	Jek N Anb
Hek An	Symbol 9 and 15 used for on-position	abotek Anboten And	otek N
niek	Symbol 10 and 16 used for off-position	tek photos b	N





### Page 7 of 50

Pair of symbols 9, 15 and 10, 16 close together  5.1.7 Equipment protected by double insulation or reinforced insulation  Protected throughout (symbol 11 used)  Only partially protected (symbol 11 not used)  N  5.1.8 Field-wiring terminal boxes  If terminal or enclosure exceeds 60°C:  Cable temperature rating marked  N  Marking visible before and during connection or beside terminal  5.2 Warning markings  Visible when ready for normal use  Are near or on applicable parts  Symbols and text correct dimensions and colour:  a) symbols min 2,75 mm and text 1,5 mm high and contrastingin colour with background  b) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and  0.5 mm depth or raised if not contrasting in colour  If necessary marked with symbol 14  Statement to isolate or disconnectif access byusing a tool to HAZARDOUS LIVE parts is permitted  The required markings remain clear and legible in normal use	Clause	Requirement – Test	Result - Remark	Verdict
Equipment protected by double insulation or reinforced insulation Protected throughout (symbol 11 used) N Only partially protected (symbol 11 not used) N Site of Field-wirring terminal boxes No such parts	Anbotek	Anbor Ak hotek Anborek Anbo	sk vupojek vupoj.	Vi. Polek
reinforced insulation  Protected throughout (symbol 11 used)  Only partially protected (symbol 11 not used)  N  S.1.8 Field-wiring terminal boxes  If terminal or enclosure exceeds 60°C:  N  Cable temperature rating marked  N  Marking visible before and during connection or beside terminal  S.2 Warning markings  Visible when ready for normal use  Are near or on applicable parts  Symbols and text correct dimensions and colour:  a) symbols and text correct dimensions and colour:  P  a) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and  0.5 mm depth or raised if not contrasting in colour  If necessary marked with symbol 14  Statement to isolate or disconnectif access byusing a tool to HAZARDOUS LIVE parts is permitted  Durability of markings  P  The required markings remain clear and legible in (see appended table)  P  Equipment is accompanied by documentation for safety purposes for operator or responsible body  Safety documentation for service personnel authorized by the manufacturer  Documentation necessary for safe operation is provided in printed media or in electronic media if available at any time  P	, upotek	Pair of symbols 9, 15 and 10, 16 close together	tek anbotek Anbote	N not
Only partially protected (symbol 11 not used)  5.1.8 Field-wiring terminal boxes No such parts  If terminal or enclosure exceeds 60°C: N  Cable temperature rating marked N  Marking visible before and during connection or beside terminal  5.2 Warning markings  Visible when ready for normal use P  Are near or on applicable parts P  Symbols and text correct dimensions and colour: P  a) symbols min 2,75 mm and text 1,5 mm high and contrastingin colour with background P  b) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and  0.5 mm depth or raised if not contrasting in colour If necessary marked with symbol 14  Statement to isolate or disconnectif access byusing a tool to HAZARDOUS LIVE parts is permitted  5.3 Durability of markings  P  The required markings remain clear and legible in normal use P  5.4 Documentation  5.4.1 General P  Equipment is accompanied by documentation for safety purposes for operator or responsible body  Safety documentation for service personnel authorized by the manufacturer  Documentation necessary for safe operation is provided in printed media or in electronic media if available at any time	5.1.7		mbotek Anbotek Anbotek	lek N An
5.1.8 Field-wiring terminal boxes	Net M	Protected throughout (symbol 11 used)	Anbotek Anbo	botek N
If terminal or enclosure exceeds 60°C:  Cable temperature rating marked  Marking visible before and during connection or beside terminal  5.2 Warning markings  Visible when ready for normal use  Are near or on applicable parts  Symbols and text correct dimensions and colour:  a) symbols min 2,75 mm and text 1,5 mm high and contrastingin colour with background  b) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and  0.5 mm depth or raised if not contrasting in colour  If necessary marked with symbol 14  Statement to isolate or disconnectif access byusing a tool to HAZARDOUS LIVE parts is permitted  5.3 Durability of markings  P  The required markings remain clear and legible in normal use  5.4 Documentation  Fequipment is accompanied by documentation for safety purposes for operator or responsible body  Safety documentation for service personnel authorized by the manufacturer  Documentation necessary for safe operation is provided in printed media or in electronic media if available at any time	potek	Only partially protected (symbol 11 not used)	Anbotek Anbotek	nbot N
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Statement to isolate or disconnectif access byusing a tool to HAZARDOUS LIVE parts is permitted  5.3 Durability of markings  The required markings remain clear and legible in normal use  5.4 Documentation  5.4.1 General  Equipment is accompanied by documentation for safety purposes for operator or responsible body  Safety documentation for service personnel authorized by the manufacturer  Documentation necessary for safe operation is provided in printed media or  in electronic media if available at any time	Anbotek		ek Anbotek Anbotek	Amborel Amborel
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The required markings remain clear and legible in normal use  5.4 Documentation  5.4.1 General  Equipment is accompanied by documentation for safety purposes for operator or responsible body  Safety documentation for service personnel authorized by the manufacturer  Documentation necessary for safe operation is provided in printed media or in electronic media if available at any time  P  Required markings remain clear and legible in (see appended table)  P  P  Bequipment is accompanied by documentation for safety purposes for operator or responsible body  N  P  P  P  P  P  P  P  P  P  P  P  P		byusing a tool to HAZARDOUS LIVE parts is	Anbotek Anbotek An	otek P A
normal use  5.4 Documentation  5.4.1 General  Equipment is accompanied by documentation for safety purposes for operator or responsible body  Safety documentation for service personnel authorized by the manufacturer  Documentation necessary for safe operation is provided in printed media or in electronic media if available at any time  P   P  P  P  P  P  P  P  P  P  P	5.3	Durability of markings	Anbotes Anbotes	anboP <sup>k</sup>
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safety purposes for operator or responsible body  Safety documentation for service personnel authorized by the manufacturer  Documentation necessary for safe operation is provided in printed media or  in electronic media if available at any time  N  P	5.4.1	General Market Land Control of the C	Anborot American	otek P Ar
authorized by the manufacturer  Documentation necessary for safe operation is provided in printed media or  in electronic media if available at any time  P	-botek A		Anborek Anborek	inbotek P
provided in printed media or in electronic media if available at any time  P	Anbotek		Anbotek Anbotek	Anborek Anborek
te, tu	Anbo		otek Anbotek Anbotel	P <sub>n</sub> bo
Documentation includes:	rek	in electronic media if available at any time	Jun otek vupotek Vup.	P
THE PARTY AND TH	-rek	Documentation includes:	And tek abotek A	Lpo,





### Page 8 of 50

Clause	Requirement – Test	Result - Remark	Verdict
Vupore,	And wek wholek Aupo, Will hot	ek Anbote, Pun	anborek
Anboien	b) Technical specification	otek Anboten Anbo	P
Anbo	c) Name and address of manufacturer or supplier	work Anbotek Anbo	P
rek ar	d) Information specified in 5.4.2 to 5.4.6	Anbotek Anbotek Anbo	P
lbotek	e) Information about how to mitigate risks remaining	Anbotek Anbotek Ar	Anbotek
Anboten	f) accessories for safe operation of the equipment specified	Anbotek Anbotek	Ant Brek
ek Anbot	g) guidance provided to check correct function of the equipment, if incorrect reading may cause a hazard from harmful or corrosive substances of hazardous live parts	Anbotek Anbotek Anbotek Anbotek Anbotek	P <sup>nb</sup> e <sup>k</sup> Ant
potek	h) Instructions for lifting and carrying (see 7.5)	Anbotek Anbo tek	N <sup>2</sup> rodo
Anbotek	Warning statements and a clear explanation of warning symbols:	Anbotek Anbotek	Anb Brek
Vun	Provided in the documentation; or	ore. And otek Anbotek	N
Anto	Information is marked on the equipment	poter And otek Andote	NAMP
5.4.2	Equipment ratings	Anbotes Anbo tek ont	lotek b
oter	Documentation includes:	Anbotek Anbo tek	abotek
Aupolek	a) Supply voltage or voltage range	AC/DC85-270V	nb Pak
Anbotek	Frequency or frequency range	50Hz	Notel
anbote	Power or current rating	120A	N
Anb	b) Description of all input and output connections in accordance to 6.6.1 a)	Anbotek Anbotek Anbo	otek P A
hotek P	c) Rating of insulation of external circuits as required by 6.6.1b)	Anbotek Anbotek	nbote <sup>k</sup> N
Anbotek	d) Statement of the range of environmental conditions	Ambient temperature: 5°C~40°C	Anbotek Anbotek
VUD	e) Degree of ingress protection (IP, IEC 60529)	IPX0	Panbo
PUP	f) Impact rating less than 5 J	Anbotek Anbo	tek P Ar
All Al	IK code in accordance to IEC 62262 marked or	Aupotek Pupos	botek N
botek	symbol 14 of table 1 marked, with	Anbotek Anbot A	nbo'P <sup>K</sup>
Anbotek	RATED energy level and test method stated	anbotek Anbor	Nek
5.4.3	Equipment installation	stek Anbotek Anbore	
, abo	Documentation includes instructions for:	otek Anbotek Anbote	Par
ek -	a) Assembly, location and mounting requirements	Anbotek Anbotek	P
LOK YOU	b) Protective earthing	Anbo. An abotek Ar	N
Par	c) Connections to supply	Anbor Air otek	Anboten P

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### Page 9 of 50

Clauca	Poquiroment Toot	Result - Remark	\/ordict
Clause	Requirement – Test	Result - Remark	Verdict
VII.	d) Permanently connected equipment:	sek abotek Anbotek	Pulp.
Al.	Supply wiring requirements	or An abotek Anbotek	N
ek An	If external switch or circuit-breaker, requirements and location recommendation	Anbotek Anbotek Anbo	potek N
potek	e) ventilation requirements	Anbotek Anbotek	anbot N
Anbotek	f) special services (e. g. air, cooling liquid)	Anbotek Anbo	Nick
Anborek	g) Instructions relating to sound level	tek Aupotek Aupo	N
5.4.4	Equipment operation	notek Anbotek Anbot	PA
ak nab	Instructions for use include:	tor otek Vupotek Vupo,	- A
ootek	a) identification and description of operating controls	(see user manual)	P
anbotek	b) Positioning for disconnection	anbotek Anbore	Nek
nbotek	c) Instructions for interconnection	ek nbotek Anbote	P
w. abotel	d) Specification of intermittent operation limits	(see user manual)	Р
/r "/p	e) Explanations of symbols used	botek Anbot	P Am
by.	f) Replacement of consumable materials	Anbo. Ak hotek Anh	otes N
O b	g) Cleaning and decontamination	Anbott An Motek	N Apologia
inbotel.	h) Listing of anypoisonous or injurious gases and quantities	ek abotek Anbotek	Anto N
Anbotek	i) RISK reduction procedures relating to flammable liquids (see 9.5)	potek Anbotek Anbots	N
stek Anbo	j) RISK reduction procedures relating burn from surfaces permitted to exceed limits of 10.1	Anbotek Anbotek Anb	stell N
nbotek	Additional precautions for IEC 60950 conforming equipment in regard to moistures and liquids	Anbotek Anbotek	nbore N <sub>k</sub>
Anborek	A statement about protection impairment if used in a manner not specified by the manufacturer	k Anbotek Anbotek	Anbotel
5.4.5	Equipment maintenance and service	otek Anboter Ann	- nob
Anbo	Instructions for responsible body include:	hotek Anboten And	rek
rek An	Instructions sufficient in detail permitting safe maintenance and inspectionand continued safety:	Anbotek Anbotek Anb	, botek P
botek	Instruction against the use of detachable MAINS supply cord with inadequate rating	Anbotek Anbor A	anbot Pr
Anboten	Specific battery type of user replaceable batteries	Anbores And	Potek
Anbotel	Any manufacturer specified parts	otek Anboten Anbu	Palbo
Anboth	Rating and characteristics of fuses	notek Anbotek Anbot	P
ek Anl	Instructions include following subjects permitting safe servicing and continued safety:	Anbotek Anbotek Anbo	potek P
-otek	a) product specificRISKSmay affect service	hotek Anbor Al	P





	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Anboren	And tek anbotek Anbor All	ek Anboren Anbo	anborek
Anborek	b) protective measures for theseRISKS	otek Anborek Anbo	P
anbo	c) verification of the safe state after repair	notek anbotek Anbo	P
5.4.6	Integration into systems or effects resulting from special conditions	Anbotek Anbotek Anbo	botek N
poter	Aspects described in documentation	Anbore" And	Nooth
Anbotek	Anborek Anborek Anbore	k Aupolek Pupo,	abotek
6 Anboyer	Protection against electric shock	otek unbotek Anbor	1001
6.1	General	otek Anbotek Anbote	A 7
6.1.1	Requirements	anbotek Anbotek Anbo	- PE
botek botek	Protection against electric shock maintained in NORMAL CONDITION and SINGLE FAULT CONDITION	Comply with requirement	Anboter
Pupo, rok	ACCESSIBLE parts not HAZARDOUS LIVE	Aupo, Ar.	Antoren
Anbore	Voltage, current, charge or energy below the limits in NORMAL CONDITION and in SINGLE FAULT CONDITION between:	potek Anbotek Anbotek	P Ani
Se Pur	ACCESSIBLE parts and earth	Anbotel Anb	N
Aupotek Aupotek	Two ACCESSIBLE parts on same piece of the equipment within a distance of 1,8 m	Anbotek Anbotek	unbotek
Anborek	Conformity is checked by the determination of 6.2 and 6.3 followed by the tests of 6.4 to 6.11	ak Anborek Anborek	Poore
6.1.2	Exceptions	born Ar botek Anbote	-Aug
otek bur	Following HAZARDOUS LIVE parts may be accessible to an OPERATOR:	Anbotek Anbotek Anb	botek N
inbotek otek	a) parts of lamps and lamp sockets after lamp removal	Anbotek Anbotek	AnboN*
Anbotek	b) parts to be replaced by operator only by the use of tool and warning marking	otek Anbotek Anbotek	NN on or
k Anbo	Those parts not hazardous live 10 s after interruption of supply	Anbotek Anbotek Anb	tek N
abotek Ar	Capacitance test if charge is received from internal capacitor	Anborek Anborek A	ibotek N
6.2 otek	Determination of accessible parts	ok abotek Anbotes	Aug - Hek
6.2.1	General	ok hotek Anbotes	PUPP
Anbo,	Unless obviously determination of accessible parts as specified in 6.2.2 to 6.2.4	obotek Anbotek Anbotek	ek Pupo
V	There are a ser about	II. A Pupo	Y.

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Examination

6.2.2



Ρ Ρ

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



### Page 11 of 50

Clause	Poquirement Teet	Result - Remark	Verdict
Clause	Requirement – Test	Result - Remark	verdict
Aur	- with rigid test finger (as specified B.1) anda force	K Potek Pubotek	P M
	of 10 N	orer Ann otek Anborek	Anbo.
6.2.3	Openings above parts that are hazardous live	No openings	IN AM
te, Yu	- test pin with length of 100 mm and 4 mm in diameter applied	Anbotek Anbotek Ar	botek N
6.2.4	Openings for pre-set controls	Anboten Anboten	Ant Nek
Anbotek	- test pin with length of 100 mm and 3mm in diameter applied	tek Anbotek Anbotek	Anbore Anbore
6.3 Anbore	Limit values for accessible parts	Abotek Anbote Ans	ek Anb
6.3.1	Levels in normal condition	abotek Anbote Ann	over P
lootek l	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	AnboteP
Anborek Anborek	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	ek Anbotek Anbotek	AntoNie
Anbotel	Voltages are not HAZARDOUS LIVE the levels of:	otek Anbotek Anbot	γγο. br.
ek Anbr	b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz	Anbotek Anbotek Anbot	otek N Am
Anbotek	for wet locations measuring circuit A.4 used	Vupotek Vupote	ato N
Anbotek	c) Levels of capacitive charge or energy less:	ek anborek Anbore	Notek
k Anborek	1) 45 µC for voltages up to 15 kV peak or d.c. or line A of Figure 3	Dotek Anbotek Anbote	k N <sub>Anbo</sub>
otek An	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	Anbotek Anbotek Anb	botek N A
6.3.2	Levels in single fault condition	Vupotek Vupor t	, boPk
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	P Anbotek
K Anbo	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	otek Anbotek Anbotel	N. Noo
otek an	Voltages are notHAZARDOUS LIVEthe levels of:	Motek Anboren Anbo	-tek
nbotek Anbotek	b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz	Anbotek Anbotek A	N Anbotek Anbotek
Aupon	for wet locations measuring circuit A.4 used	otek Anbor An-	Mabor
Pupo,	c) Levels of capacitive charge or energy less:	upotek Aupon Are	ek N Ant
Ya Ya.	1) 45 μC for voltages up to 15 kV peak or d.c. or	rok spores Arre	atel N





No.	EN 61010-1	All Poten A	nb.
Clause	Requirement – Test	Result - Remark	Verdict
Aupor	her store Aries & sor	ek Anbore Anbore	anbore
Anboren	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	otek Anbotek Anbotek	N Anbore
6.4	Primary means of protection	Anbote, And otek Anbo	lek b Vup
6.4.1	ACCESSIBLE parts prevented from being HAZARDOUS LIVE by one or more of following means:	Anbotek Anbotek Ar	potek P
Anborek	a) ENCLOSURES or PROTECTIVE BARRIERS (see 6.4.2)	tek anbotek Anbotek	An President
. abot	b) BASIC INSULATION(see 6.4.3)	tek abotek Aupore.	P
*BK "	c) Impedance (see 6.4.4)	Aupo, William Bright	N
6.4.2	Enclosures and protective barriers	Anbor An abotek An	P
upon ok	- meet rigidity requirements of 8.1	Anbo sak abotek	Aupore N
Anbotek	- meet requirements for BASICINSULATION, if protection is provided by insulation	ek Anbotek Anbotek	Ant N
ek Anbote	- meet requirements of 6.7 for CREEPAGE and CLEARANCES between ACCESSIBLE parts and HAZARDOUS live parts, if protection is provided by limited access	Anbotek Anbotek Anbotek Anbot	otek Ar
6.4.3	Basic insulation	Anboth Am botek	unbote P
Anbotek	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	anbotek Anbotek	Anb Pell hotek
6.4.4	Impedance	tek nbotek Anbote	N
ek Anb	Impedance used as primary means of protection meets all of following requirements:	Anbotek Anbotek Anbote	orek Name
potek p	a) limits current or voltage to level of 6.3.2	Anbotek Anbo	abote <sup>k</sup> N
Anborek	b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate	Anbotek Anbotek	AnboN <sup>k</sup>
Anbotel	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7	hotek Anbotek Anbotek	AN Anbor
6.5	Additional means of protection in case of single fault condition	Anbotek Anbotek Anb	rotek An
6.5.1	ACCESSIBLE parts are prevented from becoming HAZARDOUS live by the primary means of protection and supplemented by one of:	Anbotek Anbotek A	Anbotek Anbotek
Anbotek	a) PROTECTIVEBONDING(see 6.5.2)	otek Anbotek Anbot	Poote
r vupo,	b) SUPPLEMENTARYINSULATION (see 6.5.3)	otek anbotek Anbore	P P
otek ar	c) automatic disconnection of the supply (see 6.5.5)	Anbotek Anbotek Anbo	potek N
abotek	d) current-or voltage-limiting device (see 6.5.6)	Anbotek Anbor Al	, bot N





### Page 13 of 50

Clause	Requirement – Test	Result - Remark	Verdict
Anboten	And Talk anbotek Anbot All Holl	ak Anboren And	anborek
	Alternatively one of the single means of protection is used:	otek Anbotek Anbotek	N
P.Up.	e) REINFORCED INSULATION(see 6.5.3)	Impose, Aug Otek Vupo	ICH N AN
A. D.	f) PROTECTIVE IMPEDANCE (see 6.5.4)	Anbores And otek	potek N
6.5.2	Protective bonding	Anboter Anti-	anbotek
6.5.2.1	ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION:	tek Aupotek Aupotek	Anborek Anbore
ek Anbo	Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or	Potek Vuposek Wupos	ek but
botek	Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL	Anbotek Anbotek An	oote N
6.5.2.2	Integrity of protective bonding	Anbotek Anbo.	abotek.
Anbotek Anbot	a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses	ek Anbotek Anbotek botek Anbotek Anbotek	N Anbore
er Ber	b) Soldered connections:	Anbor Ak botek Anh	ote P
O. A.	Independently secured against loosening	Aupore Aug Potek	unbote N
Vupole, K	Not used for other purposes	Aupoles Aug	AnbNeh
Auporo	c) Screw connections are secured	isk Aupora Aur.	Note
Anbore	d) Protective bonding not interrupted	botek Anbores Ano	K Namb
k Anb	exempted as removable partcarries MAINS SUPPLY INPUT connection	Anbotek Anbotek Anb	Stell N
unbotekntek	e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4	Anbotek Anbotek	upotek V
	f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING)	otek Anbotek Anbotek	N N
Anb	g) If mains supply passes through:	botek Anboten And	rek -
itek p	Means provided for passing protective conductor	hotek Anboten Anb	N Yell
hotek	Impedance meets 6.5.2.4	Anbotek Anbotek A	100
Anbotek	h) Protective conductors bare or insulated, if insulated, green-and-yellow	Anbotek Anbotek	Anbotek Anbotek
Anbore	Exceptions:	otek Anbore And Lotek	D'Upo,
Anbo	1) earthing braids	abotek Anbotes Anno	ek N
iek or	2) internal protective conductors etc.	hotek Anboter Anb	nek N
rek.	Green/yellow not used for other purposes	And stek anbotek Ar	N





Clause	Requirement – Test	Result - Remark	Verdict
Auporen	and thek andonek Ambort All	ak Anbotek Anbo	anborek
	TERMINAL suitable for connection of a PROTECTIVE CONDUCTOR, and meets 6.5.2.3	otek Anborek Anborek	N
6.5.2.3	Protective conductor terminal	inbole And arek anbo	lek - Pul
ye. br	a) Contact surfaces are metal	Anbore. And otek Ar	potek P
poler	b) Appliance inlet used	Anboter And And	Anbot P
Anbotek Anbotek	c) For rewireable cords and permanently connected equipment, protective conductor terminal is close to mains supply terminals	tek Anbotek Anbotek	And Prek Ambore
ek Aupo,	d) If no mains supply is required, any protective conductor terminal:	Totek Anborek Anbor	ek Aup
botek L	Is near terminals of circuit for which protective earthing is necessary	Anbotek Anbotek An	N N
Anbotek	External if other terminals external	Anbotek Anbo.	Nek
Anbotek	e) Equivalent current-carrying capacity to mains supply terminals	lek Anbotek Anbotek	N Anbotel
Aup	f) If plug-in, makes first and breaks last	bote And otek Anbote	N Manb
iotek Ani	g) If also used for other bonding purposes, protective conductor:	Anbotek Anbotek Ant	lotek b
hotek	Applied first	And Anboten	Inpo Nak
Am	Secured independently	k hotek Anbotek	And N rek
And	Unlikely to be removed by servicing	ak hotek Anbotek	N
Anu	h) Protective conductor of measuring circuit:	bote And Motek Anbote	Nambe
otek burn	Current RATING equivalent to measuring circuit TERMINAL;	Anbotek Anbotek Anb	otek N A
botek	2) PROTECTIVE BONDING:	abotek Anboter A	N
abotek.	Not interrupted; or	K shotek Anboten	And N tek
	i) Functional earth terminals allow independent connection	otek Anbotek Anboten	Anbo
k Aupo	j) If a binding screw used for PROTECTIVE CONDUCTOR TERMINAL:	inbotek Anbore American	tek P An
, ak	Suitable size for bond wire	Anbo Ak abotek A	ibore P
upo.	Not smaller than 4,0mm (No. 6)	Anbo kek abotek	Pupo B
Anbor	At least 3 turns of screw engaged	Aupor Am apotek	ATP POPE
Aupor	Passes tightening torque test	otek Anbor An hotek	Panbot
tek Anbo	k) Contactpressure not capable being reduced by deformation of materials	hbotek Anbotek Anbo	ek N Anl
6.5.2.4	Impedance of protective bonding of plug- connected equipment	Anbotek Anbotek Ar	pores N





### Page 15 of 50

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Anborek Anbor	Impedance between PROTECTIVE CONDUCTOR TERMINAL and each ACCESSIBLE part where PROTECTIVE BONDING is specified, is:	otek Anbotek Anbotek  Anbotek Anbotek Anbotek  Anbotek Anbotek	ek Anbo
. ok	less than 0,1 Ohm; or	Anboy Lek abotek A	N N
nnbotek no	less than 0,2 Ohm if equipment is provided with non detachable cord	Anbotek Anbotek	AnborN botek
5.5.2.5	Bonding impedance of PERMANENTLY CONNECTED EQUIPMENT	tek Anbotek Anbotek	N Anbo
5.5.2.6	Transformer protective bonding screen	hotek Anbor An	ek N
otek Ani	Transformer provided with screen for protective bonding:	Anbotek Anbotek An	potek 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)	ek Anbotek Anbotek	Ambotek Ambotek
K Anbon	screen bonding with soldered connection (see 6.5.2.2 b ) is:	botek Anbotek Anbot	ek Nan
stek "	- Independently secured against loosening	And otek Anbotek An	N
stek.	- Not used for other purposes	Anti-	rupo, N
5.5.3	Supplementary insulation and reinforced insulation	ak Anbotek Anbotek	Anb P
Aupote	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	Jotek Anbotek Anbote	P Ani
.5.4	Protective impedance	Anbore Ant botek Ant	oter N
ipotek b	Limits current or voltage to level of 6.3.1 in NORMAL and to level of 6.3.2 in SINGLE FAULT CONDITION	Anbotek Anbotek	nbotek Anbotek
Anborek	CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of DOUBLE or REINFORCE DINSULATION of 6.7	otek Anbotek Anbotek	A/N <sup>ON</sup>
ek Anbo	The protective impedance consists of one or more of the following:	inbotes Anb	Tek N
botek	a) appropriate single component suitable for safety and reliability for protection, it is:	Aupotek Aupotek b	Anbotek
Anborek	RATED twice the maximum WORKING VOLTAGE	tek anbotek Anbotek	No. No. and
Anboi	resistor RATED for twice the power dissipation for maximum WORKING VOLTAGE	nbotek Anbotek Anbote	N N
ar An	b) combination of components	Anbotek Anbote An	botek N
otek	Single electronic device not used asPROTECTIVE IMPEDANCE	Aupotek Aupotes A	<sub>Anbot</sub> N

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Clause	Requirement – Test	Result - Remark	Verdict
Vupo.	notek Anbore And tek mbor	Aupon Mariek	Anbores
6.5.5	Automatic disconnection of the supply	otek Anbores And	Nabote
Anbo	a) RATED to disconnect the load within time specified in Figure 2	inbotek Anbotek Anbo	lek N And
hotek Ar	b) RATED for the maximum load conditions of the equipment	Anbotek Anbotek A	botek N
6.5.6	Current- or voltage-limiting device	hotek Anbotet	And Nek
Vien Polsk	Device complies with all of:	k kotek Anbotek	And N
Anbot	a) RATED to limit the current or voltage to the level of 6.3.2	potek Aupotek Aupotek	N <sub>1</sub> pos
ek An	b) RATED for the maximum working voltage; and	botek Anbores Ano	N Yell
potek	RATED for the maximum operational current if applicable	Anborek Anborek Ar	AnboteN
Anbotek Anbotek	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of SUPPLEMENTARY INSULATION of 6.7	ek Anbotek Anbotek	Ant Nie Ambotek
6.6	Connections to external circuits	hotek Anbotek Anbo	Tek P
6.6.1	Connections do not cause ACCESSIBLE parts of the following to become HAZARDOUS LIVE in NORMAL CONDITION or SINGLE FAULT CONDITION:	Anbotek Anbotek Anbotek	Anbotek
VUD.	- the external circuits	and tek anbotek	PPOOL
Aupo	- the equipment	potek Anbo tek nbotk	P <sub>Anbo</sub>
k Anb	Protection achieved by separation of circuits; or	upotek Aupon ek	otek P Ar
otek p	short circuit of separation does not cause a HAZARD	Anbotek Anbotek	inbotelP
Nun Jiek	Instructions or markings for each terminal include:	And otek Anbotek	Anbon P
Anb	a) Rated conditions for terminal	And stek anbotek	MP
Aup	b) Required rating of external circuit insulation	oter Anbore	Nupor
6.6.2	Terminals for external circuits	Aupotek Aupo. Aupo.	chek Pul
upotek b	TERMINALS which receive a charge from an internal capacitor are not HAZARDOUS LIVE after 10 s of interrupting supply connection	Anbotek Anbotek A	ibotek N Anbotek
6.6.3	Circuits with terminals which are hazardous live	No such hazardous live terminals	Antotek
- 100	These circuits are:	sek abotek Anbotes	V VIII
Dr.	Not connected to accessible conductive parts; or	hopon ku hotek Aupo	N Ant
ibotek Ar	Connected to accessible conductive parts, but are not mains circuits and have one terminal contact at earth potential	Anbotek Anbotek A	potek N

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

Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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





Clause	Requirement – Test	Result - Remark	Verdict
Anboro	- Motek Pupoles Ville Otek Ville	Hek Anbore Am	Aupole
Anbore	No accessible conductive parts are hazardous live	hotek Anbore Ant	M N N
6.6.4	Accessible terminals for stranded conductors	abotek Anbote. And	- No.
rek a	No RISK of accidental contact because:	VII. TOLEK VUPOLEK VUE	N N
otek	Located or shielded	Antotek Anbotek	N
	Self-evident or marked whether or not connected to ACCESSIBLE conductive parts	el Anbotek Anbotek	Anbo'N
Anboren	ACCESSIBLE TERMINALS will not work loose	hotek Anbotek Anbo	N <sub>300</sub>
6.7	Insulation requirements	otek Anbotek Anbo	PA
6.7.1	The nature of insulation	Arbotek Anbotek Anb	- N
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	Ambotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	Anbotek Anbotek
6.7.1.2	Clearances	otek Anbotek Anbo	Р
ak An'	Required CLEARANCES reflecting factors of 6.7.1.1	Anbotek Anbotek Anbo	botek P M
Anbotek	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	otek Aupois Aus	Poote
k Anbor	Required CLEARANCES reflecting factors of 6.7.1.1	in otek Aupotek Aupot	ek P <sub>An</sub> t
br.	CTI material group reflected by requirements	Anbor An botek An	Р
O'C	CTI test performed	Anbote An hotek	Anborek P
6.7.1.4	Solid insulation	Auporer Aug	anboyer
Anboten	Required CLEARANCES reflectingfactors of 6.7.1.1	sek Anbotek Anbotek	Nove
6.7.1.5	Requirements for insulation according to type of circuit	nbotek Anbotek Anbot	otek b
upotek b	a) In 6.7.2 for mains circuits of overvoltage category II with a nominal supply voltage up to 300V	Anbotek Anbotek	Anbotek Anbotek
Anbotek	b) In 6.7.3 for secondary circuits separated from the circuits in a) only by means of a transforme	tek nbotek Anbotek	An Potes
Aupe	c) In K.1 for mains circuits of overvoltage category III or IV or for overvoltage category II over 300V		N A
tek A	d) In K.2 for secondary circuits separated from the circuits in c) only by means of a transformer	Anborek Anborek	urbotek P
ID.	e) In K.3 for circuits that have one or more of:	Anb	Anbo, N

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

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





Clause	Requirement – Test		ntek R	esult - Remar	k Ak	Verdic
Oladoc	Troquirement Tool	Anbotek	Anbo	- Terriar	hupolo	Verdie
Anbotek	maximum TRANSIE limited to known level be CIRCUIT			otek Anbote	otek Anbotek	N Anb
tek Ant	maximum TRANSIE     above the level of MAII		GE.	Aupotek L	inbotek And	botek N
Vupotek	WORKING VOLTAGE     than one circuit or a mi		nore	Anborek	Anbotek	AnborN abotel
Anbotek Anbotel	4) WORKING VOLTAG peak voltage, may inclu non-periodic waveform	ude non-sinusoida		otek Anbotel	stek Anbotek	Anbr
ek Wup,	5) WORKING VOLTAG above 30 kHz	E with a frequence	cy sotek	inbotek A	nbotek Anbo	potek N
6.7.2	Insulation for mains circu nominal supply voltage u		II with a	Anborek	Anbotek	Anbore N
6.7.2.1	CLEARANCES and CRE	EPAGE DISTANC	CES	abotek	Anbote	And P
hotek	Values for MAINS CIRCL	JITS of table 4 are	e met	rek apo	tek Wupole	Р
ik Vupc	Coatings to achieve redu DEGREE I comply with re			hbotek Ar	botek Anbot	otek P Ar
6.7.2.2	Solid insulation	Aupoten Aup	- rek	anbotek	Aupore Au	Note
6.7.2.2.1	Withstands electrical and normal use and all RATE conditions of 1.4		ses in	Anbotek	Anborek Anborek	Anbol Nak
k Anbotek	Equipment passed voltagivalues of Table 5	e tests of 6.8.3 w	ith Anbo	rek Anbot	otek Anbote	N AN
Y Ann	Complies as applicable:	po sek spo	arek ar	Pose. Vu	hotek Ant	otek N
potek Vi	a) ENCLOSUREor PROT Clause8	ECTIVE BARRIE	Rotek	Anbote.	Anbotek	nborek N
Anbotek	b) moulded and potted pa 6.7.2.2.2	arts requirements	of about	Anbotek	Aupotek	Anbore Anbore
Anbor	c) inner layers of printed requirements of 6.7.2.2		Anbot	ek Aupo,	Jotek Anbote	N <sub>int</sub>
tek vul	d) thin-film insulation requ	uirements of 6.7.2	2.2.4	o'ek	Anbotek Anb	N
6.7.2.2.2	Moulded and potted parts	Vu.	lipotek	Aup.	anbotek P	ipose N
Anbotek Lotek	Conductors between sam separated by at least 0,4 completed		ng is	Anbotek Anbotek	k Anbotek	Anbore Anbore
6.7.2.2.3	Inner insulation layers of	printed wiring boa	ards March	Ann	otek anbotek	Nup
ek Anb	Separated by at least 0,4 layers	mm between san	ne two	oter And	mbotek Anbo	ek N P
botek	REINFORCE DINSULAT electric strength; one of for			anbotek.	Anboren A	N





### Page 19 of 50

Clause	Requirement – Test	Result - Remark	Verdict
nause	Nequirement – Test	Tresuit - Itemark	Verdict
VII.	a) thickness at least 0,4 mm	Lek abotek Anbotek	N
ek Aupo,	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	inbotek Anbotek Anbotek Anbotek	ek N
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	tek Anbotek	Nipo
k Aupon	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES	Anbotek Anbotek Anbo	ovek N Ari
obotek	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	Anbotek Anbotek	AnboteN hotek
abotek	a) thickness at least 0,4 mm	ek obotek Anboren	N N
Anbote	b) insulation is assembled of min two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	botek Anbotek Anbot	N
nbotek nbotek	c) insulation is assembled of min three separate layers, where the combination of two layers passed voltage tests of 6.8.3 with values of Table 5 for REINFORCED INSULATION	Anbotek Anbotek An	Anbotek
5.7.3	Insulation for secondeary circuits derived from mains circuits of overvoltage II with a nominal supply voltage up to 300V	ootek Anbotek Anbotek	Ant Ant
5.7.3.1	Secondary circuits where separation from MAINS CIRCUITS is achieved by a transformer providing:	Anborek Anborek Ant	otek N
work	- REINFORCED INSULATION	Antotek Anbotek	N <sup>K</sup>
rojek.	- DOUBLE INSULATION	k kotek Anbotek	AnbaN
Anborek	- screen connected to the PROTECTIVE CONDUCTOR TERMINAL	otek Anbotek Anbotek	A'N dno
.7.3.2	CLEARANCES	hotek Anbores Anto	Nek P
ek Ar	a) meet the values of Table 6 for BASIC INSULATION and SUPPLEMENTARY INSULATION; or	Anbotek Anbotek Anb	ibotek P
Anbotek	twice the values of Table 6 for REINFORCED INSULATION	Anbotek Anbotek	Anborel Anborel
Anbo	b) pass the voltage tests of 6.8 with values of Table 6; with following adjustments:	botek Anbotek Anbotek	Pob
alk An	values forREINFORCED INSULATION are     1,6 times the values for BASIC INSULATION	anbotek Anbotek Anbe	otek P





Clause	Requirement – Test	Result - Remark	Verdict
Anbotek	Anbot An Hotek Anbotel And	sk vuposek kupo,	Pi.
Anbotek	2) if operating altitude is greater than 2000 m values of CLEARANCES multiplied with factor of Table 3	otek Anborek Anborek	P Anbot
tek An	3) minimum CLEARANCE is 0,2 mm for POLLUTION DEGREE 2 and 0,8 mm for POLLUTION DEGREE 3	Anbotek Anbotek Anbotek A	potek N
6.7.3.3	CREEPAGE DISTANCES	. Anbotek Anbo	Potek
Anbořek Anboř	Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY INSULATION	tek Anbotek Anbotek	Anbor Anbor
ek Au	Values for REINFORCED INSULATION are twice the values of BASIC INSULATION	Anborek Anboren Anno	botek P
botek	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	Ambotek Ambotek	AnboreN Hotek
6.7.3.4	Solid insulation	ak abotek Anbote	ATT N
6.7.3.4.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	botek Anbotek Anbote	N Ant
potek l	a) Equipment passed voltage test of 6.8.3.1 for 5 s with VALUES of Table 6 for BASIC and SUPPLEMENTARY INSULATION	Anbotek Anbotek An	unbotel N
Anbotek	values for REINFORCED INSULATION are 1,6 times the values of BASIC INSULATION	ek Anbotek Anbotek	Anborel Anbore
Anbole Anbo	b) if WORKING VOLTAGE exceeds300 V, equipment passed voltage test of 6.8.3.1 for 1 min with a test voltage of 1,5 times working voltage for BASIC or SUPPLEMENTARY INSULATION	Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek	nbotek A
inboren botek	value for REINFORCED INSULATION are twice the WORKING VOLTAGE	k Anbotek Anbotek	Aup N. K.
An Potek	Complies as applicable:	ok botek Anbores	N
Pro-	1) ENCLOSURE or protective barrier Clause 8	or Antorek Anbore	N
stek bu	2) moulded and potted parts requirements of 6.7.3.4.2	Anbotek Anbotek Anb	botek N A
nbotek	3) inner layers of printed wiring boards requirements of 6.7.3.4.3	Anbotek Anbotek	Anbo N-
Anb	4) thin-film insulation requirements of 6.7.3.4.4	And stek anbotek	M
6.7.3.4.2	Moulded and potted parts	otek Anbotel	Napo
lek vu	Conductors between same two layers are separated by applicable distancesof Table 8	nbotek Anbotek Anb	Jek N M
6.7.3.4.3	Inner insulation layers of printed wiring boards	Aug ok Potek V	N





Clause	Requirement – Test	Result - Remark	Verdict
Anbotek	hupo, w. P. Doley, William W. Pole	ok Vupotek Vupo	r. sporek
Anborek	Separated by at least by applicable distances of Table 8 between same two layers	otek Anborek Anber	N
Jek And	REINFORCED INSULATION have adequate electric strength; one of following methods used:	nbotek Anbotek Anbo	ek N M
hotek	a) thickness at least applicable distance of Table 8	hotek Anbotes Ar	N
Anbotek	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION	tek Anbotek Anbotek	Anbotek Anbotek
ek Anbot	c) insulation is assembled of min two separate layers, where the combination is rated for 1,6 times the test voltage of Table 6	hotek Anbotek Anbot	ek N
6.7.3.4.4	Thin-film insulation	Annotek Anbotek An	N
Anbotek	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES	Anbotek Anbotek	Anborek Anborek
Anbote	REINFORCED INSULATION have adequate electric strength; one of following methods used:	botek Anbotek Anbote	N Ant
ik but	a) thickness at least applicable distance of Table 8	Anbotek Anbo Ak Ak	otel <sup>k</sup> N
anbotek Anbotek	b) insulation is assembled of min two separate layers, each RATEDfor test voltage of Table 6 for BASIC INSULATION	Anbotek Anbotek	unbotek Anbotek
Anbote <sup>k</sup>	c) insulation is assembled of min three separate layers, where the combination of two layers passed voltage tests with 1,6 time values of Table 6:	otek Anbotek Anbotek	N <sub>o</sub> te Anb
-ok	a.c. test of 6.8.3.1; or	Anbo. Anb	N
upolek b	d.c. test of 6.8.3.2 for circuits stressed only by d.c. voltages	Anbotek Anbotek	nbotek
5.8	Procedure for voltage tests	k Nupotek Aupor	por botel
6.9	Constructional requirements for protection against electric shock	orek Anbotek Anbotel	P
5.9.1	If a failure could cause a HAZARD:	inposes Aup.	Jek b
Jek N	a) Security of wiring connections	Anborek Anbo	,botel <sup>k</sup> P
botek	b) Screws securing removable covers	Anbotek Anbo	nbo'P <sup>k</sup>
Anbotek	c) Accidental loosening	Aupotek Aupo.	Potek
Anbotek	d) CREEPAGE and CLEARANCES not reduced below the values of basic insulation by loosening	otek Anbotek Anbotek	P
6.9.2	Material not to be used for safety relevant insulation:	hootek Anbotek Anbo	ek N A
notek	Easily damaged materials not used	hotek Anbotek Ar	N
No.	Non-impregnated hydroscopic materials not used	And sek abotek	Anbor N. ok

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Ole	Description and Table Anibe	Danuld Damani.	1 / a n al! a 4
Clause	Requirement – Test	Result - Remark	Verdict
6.9.3	Colour coding	ak botek Anbotek	N
Anbo	Green-and-yellow insulation shall not be used except:	nbotek Anbotek Anbotek	olek Pupo
Plejk bil	a) protective earth conductors;	Anbotek Anbor Al.	botek N
upotek	b) protective bonding conductors;	Anbotek Anbor A	nbo'N
anbotek	c) potential equilization conductors;	anbotek Ankon	Nek
anbotek	d) functional earth conductors	tek anbotek Anbor	N <sub>bote</sub>
6.10	Connection to mains supply source and connections between parts of equipment	botek Anbotek Anbot	kek - Vup
6.10.1	Mains supply cords	Anborek Anbo stek	potek P
botek	Rated for maximum equipment current	Anborek Anbo	nbotek P
Anborek	Cable complies with IEC 60227 or IEC 60245	Anbotek Anbo	Pek
Anbotek	Heat-resistant if likely to contact hot parts	ek Anborek Anbo	Nootel
Anbor	Temperature rating (cord and inlet)	Potek Wipotek Wipo.	N N
ek Aut	Green-and-yellow used only for connection to protective conductor terminals	Anbotek Anbotek Anbo	hotek P
porchek	Detachable cords with IEC 60320 mains connectors:	Anborek Anborek	anbotek sotek
- botek	Conform to IEC 60799; or	ok abotek Anbore	Ama N sek
abote!	Have the current rating of the mains connector	tek abotek Anbore	N
6.10.2	Fitting of non-detachable mains supply cords	30. A. abotek Anbot	- And
6.10.2.1	Cord entry	Anbo, ak abotek An	Dose - PL
20, b	Inlet or bushing smoothly rounded; or	Aupo, Mr. apolek	Aupore N
Aupor	Insulated cord guard protruding >5D	Anbor Ar. botek	Anb N
6.10.2.2	Cord anchorage:	k Anboro Arr botek	Arthoren
Anbore Anbore	Protective earth conductor is the last to take the strain	otek Anbore Anbore	N <sub>Anbot</sub>
otek A	a) Cord is not clamped by direct pressure from a screw	Anbotek Anbotek Anb	hotek N An
nbotek	b) Knots are not used	Anborek Anbore	N
Anbotek	c) Cannot push the cord into the equipment to cause a hazard	Anbotek Anbotek	Niek
V Vupo.	d) No failure of cord insulation in anchorage with metal parts	potek Anbotok Anbotel	Nupo,
rek no	e) Not to be loosened without a tool	inbo anbotek Anb	N
hotek	f) Cord replacement does not cause a HAZARD and method of strain relief is clear	Anbotek Anbotek A	N





### Page 23 of 50

Clause	Requirement – Test	Result - Remark	Verdict
Aupor	hardek anbores Anab sek abore	Anbor Antonia	Anbores
Anbore	Push-pull and or torque test	otek Anborer Anb	Nabote
6.10.3	Plugs and connectors	Lotek Anbotek Anbo	do - 10
Hek PL	Mains supply plugs, connectors etc., conform with relevant specifications	Anbotek Anbotek Anbo	botek N
	If equipment supplied at voltages below 6.3.2.a) or from a sole source:	Anbotek Anbotek	Anbo'N
Anborek	Plugs of supply cords do not fit mains sockets above rated supply voltage	tek Anbotek Anbotek	Anhotel
ek Aupor	MAINS-type plugs used only for connection to MAINS supply	ipotek Aupole Aupo	ek N pup
botek	Plug pins which receive a charge from an internal capacitor	Anbotek Anbotek An	obotek A
Anbotek	Accessory MAINS socket outlets:	anbotek Anbo	Nek
Anbotek	a) Marking if accepts a standardMAINSplug (see 5.1.3e)	ek Anbotek Anbotek	Nanborek
anbu Anbu	b) Input has a protective earth conductor if outlet has EARTH TERMINAL CONTACT	botek Anbotek Anbot	N Anbe
6.11	Disconnection from supply source	An Lotek Anbotek An	10/-
6.11.1	Disconnects all current carrying conductors	Arra Anbotek	rupo rek
6.11.2	Exceptions	k hotek Anbotek	Aupo.
6.11.3	Requirements according to type of equipment	And otek anbotek	Pupo.
6.11.3.1	Permanently connected equipment and multi- phase equipment	potek Aupotek Vupote	Nanbo
otek p	Employs switch or circuit-breaker	hotek Anbores Ant	N <sub>lose</sub>
inpolek	If switch or circuit-breaker is not part of the equipment, documentation requires:	Anbotek Anbotek	Anbotek Anbotek
Anborek	a) Switch or circuit-breaker must be included in the installation	kek Anbotek Anbotek	Ar Notes
r 100	b) Suitable location easily reached	tek abotek Anbore	N
.ak	c) Marking as disconnecting for the equipment	rupor An spotek Aup	N ACT
6.11.3.2	Single-phase cord-connected equipment	Aupon Kur	ibole
upo.	Equipment is provided with:	Amboro Amborok	Anbotek
Anbore	a) Switch or circuit-breaker; or	y Aupon Aur Motek	AC Notes
Anboten	b) Appliance coupler (disconnectable without tool);	otek Anboten Ano	Nabore
Anbo	c) Separable plug (without locking device)	shotek Anboten Anbo	ek N ant
6.11.4	Disconnecting devices	hotek Anborak Anho	rek
rek.	Electrically close to the SUPPLY	Aug apology M	N





	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Vupore.	War Mark Wodelk William W. Podelk William	k Aupore Mun	anborek
6.11.4.1	Switches and circuit-breakers	otek Anbotek Anbo	N N
Anbo	When used as disconnection device:	sotek Anbotek Anbo	N
sek n	Meets IEC 60947-1 and IEC 60947-3	in otek nabotek Ant	N N
stek	Marked to indicate function	And stek unbotek	N
no rek	Not incorporated in MAINS cord	Anb. atek anbotek	Aupo, N
Anborek	Does not interrupt PROTECTIVE EARTH CONDUCTOR	tek Anbotek Anbotek	An N
6.11.4.2	Appliance couplers and plugs	notek Anbotek Anbo	- A
ek An	Where an appliance coupler or separable plug is used as the disconnecting device (see 6.11.3.2):	Anbotek Anbotek Anb	upotek
botek	Readily identifiable and easily reached by the operator	Anboreek Anborek	AnboteN atek
Anbotek	Single-phase portable equipment cord length not more than 3 m	ek Anbotek Anbotek	Anbor Anbor
ak Aupon	Protective earth conductor connected first and disconnected last	Potek Vipos	Hely N Ani
-ok	aborek Anbore An arboreit	Anbo sek abotek Ar	pole
7	Protection against mechanical hazards	Aupon bosek	rupoter-
7.1 Ambotek	Equipment does not cause a mechanical HAZARD in NORMAL nor in SINGLE FAULT CONDITION	ek Anbotek Anbotek	Anborek
Anbo	Conformity is checked by 7.2 to 7.7	potek Anbo	PAnb
7.2	Sharp edges	Anbotek Anbo sek	botek P I
otek p	Easily-touched parts are smooth and rounded	anbotek Anton Al	abore <sup>N</sup> P
nbotek	Do not cause an injury in normal use and	Anborek Anbor	aboP <sup>N</sup>
Anbotek	Do not cause an injury in single fault condition	k Anbotek Anbote	Pote
7.3	Moving parts	stek anbotek Anbote	- 10°
7.3.1	HAZARDS from moving parts limited to a tolerable level with the conditions specified in 7.3.2 and 7.3.5	Anbotek Anbotek Anbotek	ochek N
nbotek	RISK assessment in accordance with 7.3.3 carried out	Anbotek Anbotek	AnboiN
7.3.2	Exceptions:	Anbore Am botek	Anhore.
Anbotes	Access to HAZARDOUS moving parts permitted under following circumstances:	otek Anbotek Anbote	Nupo
iek bu	a) obviously intended to operate on parts or materials outside of the equipment	Anbotek Anbotek Ant	obotek N
boten	inadvertent touching of moving parts minimized by equipment design (e .g. guards or handles)	Anbotes Anbotek	AmborN

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

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





Clause	Requirement – Test	Result - Remark	Verdict
Anborek	Pulgo. W. Polek Wilsole, Wur	ok Aupotek Mupo	h. abotek
Anbotek Anbot	b) If operator access is unavoidable outside normal use following precautions have been taken:	otek Anbotek Anbotek	N Anbo
rek An	1) Access requires TOOL	abotek Anbote Ant	otek N
botek	2) Statement about training in the instructions	hotek Anbote A	N
Anbotek	Warning markings on covers prohibiting access by untrained operators	Anbotek Anbotek	Anborek
Anbore	or symbol 14 with full details in documentation	lek Aupol ok Polek	Nipoi
7.3.3	Risk assessment for mechanical HAZARDS to body parts	ipotek Aupolek Aupo	ek N M
ootek	RISK is reduced to a tolerable level by protective measures as specified in Table 12	Anbotek Anbotek An	oo'e N
Anbotek	Minimum protective measures:	anborek Anbo.	Nek
anbotek	A. Low level measures	lek Anbotek Anbot	N
anbote	B. Moderate measures	otek Anbotek Anbo	N
das Ne	C. Stringent measures	otek Anbotek Anbo	N M
7.3.4	Limitation of force and pressure	Anbotek Anh	N
Anbotek	Following levels are met in normal and single fault condition:	Anbotek Anbotek	unbole N
Anbotek	Continuous contact pressure below 50 N / cm² with force below 150 N	ek Anborek Anborek	Note
K Anb	Temporary force below 250 N for an area at least of 3 cm² for a maximum duration of 0,75 s	potek Anbotek Anbote	Namb Namb
7.3.5	Gap limitations between moving parts	abotek Anboter Anti	Nyoro
7.3.5.1	Access normally allowed	abotek Anboter	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	orek Anbotek Anbotek	Anborel Anborel
7.3.5.2	Access normally prevented	inpoter Anboatek anb	Helk N P
hotek Ar	Maximum gap as specified in Table 14 assured in NORMAL and in SINGLE FAULT CONDITION	Anbotek Anbotek A	ibote <sup>K</sup> N
7.4	Stability	Anborek Anborek	Pupo Fek
Anbotek	Equipment not secured to the building structure is physical stable	otek Anbotek Anbotek	Anþo Anbo
ak Anbot	Stability maintained after opening of drawers, etc. by automatic means, or	nbotek Anbotek Anbo	ek N
notek Ar	Warning marking requires the application of means	Anborek Anborek Ar	poter N

Page 25 of 50





## Page 26 of 50

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Aupore	Kup stek supotek Wipo, W. Post	Aupore. Mun	nbolek
	Compliance checked by following tests as applicable:	otek Anbotek Anbotek	Anbore
PUL	a) 10° tilt test for other than handheld equipment	Impose, Aug Otek Vupo	ION N PULP
hotek A	b) multi-directional force test for equipment exceeds height of 1 m and mass of 25 kg	Anbotek Anbotek Ar	potek N
Anbotek	c) downward force test for floor-standing equipment	Anbotek Anbotek	Anbotek Anbotek
Anbore	d) overload test with 4 times maximum load for castor or support that supports greatest load	tek Anbotek Anbotek	Nipote
lek bi	e) castor or support that supports greatest load removed from equipment	Anbotek Anbotek Anbo	ootek N Am
7.5	Provisions for lifting and carrying	anbotek Anbo tek	abote <b>N</b>
7.5.1	Equipment more than 18 kg:	Anbotek Anbo.	Nek
anbotek	Has means for lifting or carrying; or	ek Anborek Anbore	Note
nbot	Directions in documentation	stek Anbotek Anbote	Ñ
7.5.2	Handles or grips	The tek upotek Anbor	P
184	Handles or grips withstand four times weight	Anbo sek abotek Anh	P
7.5.3	Lifting devices and supporting parts	Aupo, by apotek	rupo <sub>to</sub> N
Anbor	Rated for maximum load; or	Anbor Ak abotek	AnbN
Auporo	tested with four times maximum static load	lek Anbore Am botek	PNOVER
7.6 Anbox	Wall mounting	potek Anbor An Hotel	-Anbo
k Put	Mounting brackets withstand four times weight	anbotek Anbote An	otek N An
7.7	Expelled parts	anbotek Anbotes And	notek-
nborek	Equipment contains or limits the energy	abotek Anbotes	N.
hotek	Protection not removable without the aid of a tool	k hotek Anboien	Nek

8	Resistance to mechanical stresses		-K - DU.
8.1	Equipment does not cause a hazard when subjected to mechanical stresses in normal use	Anbotek Anbotek Anb	botek P A
nbotek	Normal protection level is 5J	Considered 5J	, bolP'
Anbotel	Levels below 5 J but not less than 1 J are acceptable if all the following criteria are met	e Anbotek Anbotek	W. Notek
Aup	a) lower level be justified by manufacturer	pater Anna rek upotek	Napore
P	b) cannot easily be touched by unauthorzed persons or the general public	Anbotek Anbotek Anbo	ek N Anbo
No.	c) only occasional access during NORMAL USE	Aupo, by bolek by	bote N A





Clause	Requirement – Test	Result - Remark	Verdict
Olddoo V	Troquiromonic Tool	Troodic Tromain	Ant Graidt
Anbotek	d) IK code in accordance to IEC 62262 marked or symbol 14 used with full information in the documentation	otek Anbotek Anbotek	N Ambo
iek Viu	For non-metallic ENCLOSURES rated below 2 °C ambient temperature value chosen for minimum rated temperature	Anbotek Anbotek Anbo	botek N A
portek	Impact energies between IK values, the IK code marked for nearest lower value	Anborek Anborek	Anbo'N
Ann	Conformity is checked by performing following tests:	sek anbotek Anbotek	Aupo.
	1) the static test of 8.2.1	sek abotek Anbote	Р
ek Aut	2) impact test of 8.2.2 with 5J except for hand- held equipment	potek Anbotek Anbot	PAN
potek	If impact energy not selected to 5J alternate method of IEC 62262 used	Anbotek Anbotek An	N
Anbotek	3) drop test of 8.3.1 or 8.3.2 except for fixed and equipment with mass over 100kg	Anbotek Anbo	Anbotek.
Anbore	Equipment rated with an impact rating of lk 08 by that clearly meets the criteria	ek Anborek Anaborek	Anbor
Amb	After the tests inspection with following results:	poter. And tek about	ik - Aul
ik Anb	- Hazardous live parts above the limits of 6.3.2 not accessible	Anbotek Anbo Ant	otek N
, v	- insulation pass the voltage tests of 6.8	Anbor An Sotek	Netodak
Anbore.	i) no leaks of corrosive and harmful substances	Anbore. And	Anb Pak
Anboten	ii) Enclosure shows no cracks resulting in hazard	ek Anbores Anbo	Pote
Anbotel	iii) CLEARANCES not less than their permitted values	botek Anbotek Anbote	P
k Anbe	iv) the insulation of internal wiring remains undamaged;	Anbotek Anbo, Anb	orek P
orek A	V) Protective barriers necessary for safety have not been damaged or loosened	Anbore Anborek	nbote N
upo jek	vi) No moving parts exposed, except permitted by 7.3	k Anbotek Anbotek	Anb°N
h. botek	vii) no damage which could cause spread of fire	ok botek Anbore	MΡ
3.2	Enclosure rigidity tests	jor Ar Hotek Anbore	P
3.2.1	Static test	inpose Am Motek Anbe	P A
An Die	- 30N with 12mm rod to each part of enclosure	Ambore Am	ipotek P
botek	- in case of doubt test conducted at maximum rated ambient temperature	Anborek Anborek	Anbo N
3.2.2	Impact test	Applied to enclosure with acceptable results	Anbo
ak Aribot	Impact applied to any part of enclosure causing a hazard if damaged	upotek Anbotek Anbo	ek P Ar
10.	Impact energy level and corresponding IK code:	Anbaho An	porek P



Ρ



	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Anbore	Ante work Ante	Anbott Anbott Anbott	anbotes
	Non-metallic enclosure cooled to minimum rated ambient temperature if below 2°C	otek Anbotek Anbotek	P
8.3	Drop test	Anbore Am botek Anbo	N And
8.3.1	Equipment other than HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	Anbotek Anbotek Ar	botel N
hotek	Test conducted with a drop height or angle of:	k hotek Anboten	Ambe Nek
8.3.2	HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	otek Anbotek Anbotek	An P
Anborr	Non-metallic ENCLOSURES cooled to minimum RATED ambient temperature if below 2 °C	hbotek Anbotek Anbo	P Anbr

9 nbote	Protection against the spread of fire		anbotek.
9.1 <sub>px</sub>	No spread of fire in normal and single fault condition	ek Anbotek Anbotek	P Anbotel
sk bur	Mains supplied equipment meets requirement of 9.6 additionally	bose Antosek Anbosek	otek N And
otek	Conformity for each source of HAZARD or area of the equipment is checked by one of the following:	Anbotek Anbotek An	unbore/P
Aupor	a) Fault test of 4.4; or	Aupo, ak Potek	Anb P
Anbo	b) Application of 9.2 (eliminating or reducing the sources of ignition); or	ek Anbotek Anbotek	A.Note
k An	c) Application of 9.3 (containment of fire within the equipment)	Anbotek Anbotek Anbot	otek PATT
9.2	Eliminating or reducing the sources of ignition within the equipment	Anbotek Anbotek	nbotek.
un olek	a) 1) Limited-energy circuit (see 9.4); or	And otek Anbotek	Amb N
Anbor	Insulation meets the requirements for BASIC INSULATION; OR	otek Anbotek Anbotek	N N
Ant	Bridging the insulation does not cause ignition	botek Anbotes Ant	N N
rek.	b) Any ignition HAZARD related to flammable liquids (see 9.5)	No liquids used	ipotek N
bolo	c) No ignition in circuits designed to produce heat	Anbore K Morek	Anboli
9.3	Containment of the fire within the equipment, should it occur	Anborek Anborek	Antorek
Aup	a) Energizing of the equipment is controlled by an operator held switch	hbotek Anbotek Anbote	ek N
ek p	b) ENCLOSURE is conform with constructional requirements of 9.3.1; and	Anbotek Anbotek Ar	potek P
Da.	Requirements of 9.5 are met	Anbo. Ak społek	Anboth N

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Drop test conducted with an height of 1 m

Page 29 of 50



Clause	Requirement – Test	Result - Remark	Verdict
Anboten	And Alek unbotek Anbot. All	ek Anboten Anb	anborek
9.3.1	Constructional requirements	otek Anbotek Anbo	- nboi
	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 Ani
ibotek	b) Insulated wires and cables are flame retardant (VW-1 or equivalent)	Anbotek Anbotek At	Anboren
Aupor	c) ENCLOSURE meets following requirements:	Aupor Ar Polek	An Pres
Anbois	1) Bottom and sides in arc of 5 ° (see Figure 13) to non-limited circuits (9.4) meets:	stek Anbotek Anbotek	N/po <sub>k</sub>
ek p	i) no openings; or	hoo tek hotek Anboy	P
*8/r	ii) perforated as specified in Table 16; or	Anbo tek abotek An	N
po.	iii) metal screen with a mesh; or	Vupo, Wek upolek	Anboren N
Pupo.	iv) baffles as specified in Figure 12	Anbo. At work	An's N
Anbor	Material of ENCLOSURE and any baffle or flame barrier is made of:	Fire enclosure is made of plastic flame rated V-0	P
N	Metal (except magnesium); or	die Viek Vupotek Vupo.	N
otek	Non-metallic materials have flammability classification V-1 or better	Anbotek Anbotek Ant	nbotek P
Anbotek	ENCLOSURE and any baffle or flame barrier have adequate rigidity	Anbotek Anbotek	Anb P.k
9.4	Limited-energy circuit	ak botek Anbotek	Ambo
K Ant	a) Potential not more than 30 r.m.s. and 42.4 V peak, or 60 V dc	Sole Anbotek Anbote	NAnb
otek	b) Current limited by one of following means:	abotek Anbotes And	ntek-
notek	1) Inherently or by impedance;	hotek Anboten P	N
hotek	2) Over current protective device;	k hotek Anbotet	And N tek
Anbote	A regulating network limits also in SINGLE FAULT CONDITION	Jotek Anbotek Anbotek	Anbo Anbo
Anb	c) Is separated by at least BASIC INSULATION	abotek Anbore K Ans	ek N
itek p	Fuse or a nonadjustable electromechanical device is used	Anbotek Anbotek An	ibotek
9.5	Requirements for equipment containing or using flammable liquids	No flammable liquids used	Anbo'N
Anbotek	Flammable liquids contained in or specified for use with equipment do not cause spread of fire	otek Anbotek Anbotek	N Ambot
NUPO	Risk is reduced to a tolerable level :	Pupotek Vupo, Vi	ek pu
ek A	a) The temperature of surface or parts in contact with flammable liquids is 25 °C below fire point	Anbotek Anbotek As	potek N
ID.	b) The quantity of liquid is limited	No such liquid used	Ambere.

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### Page 30 of 50

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Anbore	Mary Manager Manager Plants	ek Anbort Ant stek	anborek
Anbore	c) Flames are contained within the equipment	horek Anborek Anbo	N
k anb	Detailed instructions for risk-reduction provided	sofek Anbotek Anbo	N
9.6	Overcurrent protection	Industrial Anbotek Anbo	N
9.6.1	Mains supplied equipment protected	And otek anbotek Ar	N
Anbotek	Basic insulation between mains parts of opposite polarity provided	Ambotek Ambotek	Anbo'N
Anboten	Devices not in the protective conductor	takk Anboten Anbo	N <sub>bote</sub>
Anbo	Fuses or single pole circuit-breakers not fitted in neutral (multi-phase)	Anbotek Anbotek Anbot	sk N Aup
9.6.2	Permanently connected equipment	Anbore Ans work An	ooten N
hotel	Overcurrent device:	Anbores And Jorek	anboteN
Aupole,	Fitted within the equipment; or	k Anbores Anb	No Nek
Anbotek	Specified in manufacturer's instructions	clek Aupoter Aup	Noote
9.6.3	Other equipment	notek Anbotek Anbo	N N
ek on	Protection within the equipment	ntek Anbotek Anbot	N N

10	Equipment temperature limits and resistance to	heat	run rek
10.1	Surface temperature limits for protection against burns	ek Anbotek Anbotek	Anbotel
k Anbore	Easily touched surfaces within the limits in NORMAL and in SINGLE FAULT CONDITION:	(see appended table)	k P <sub>Anb</sub>
rok bu	- at an specified ambient temperature of 40 °C	Anboy Ak abotek Anb	N P
unbotek otek	- for equipment rated above 40 °C ambient temperature limits not exceeded raised by the difference to 40 °C	Anbotek Anbotek	nbore P
Anbotel	Heated surfaces necessary for functional reasons exceeding specified values:	otek Anbotek Anbotek	Anbor Anbo
k Anbi	Are recognizable as such by appearance or function; or	Inbotek Anbotek Anbo	Key N
Die. b	Are marked with symbol 13	Anbore And And	ipotek N
upole	Guards are not removable without TOOL	Anbore. And	anbo'N'
10.2	Temperatures of windings	Anbore And atek	Antotek
Anbote	Limits not exceeded in:	otek Anbotel And	-nbo
Anbo	NORMAL CONDITION	botek Anboten Anb	ek P
HEK AL	SINGLE FAULT CONDITION	hotek Anbotek Anbo	nek P
10.3	Other temperature measurements	(see appended table)	P
in botek	Following measurements conducted if applicable:	Anbotek Anbotek	Anbo

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### Page 31 of 50

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Anbo	rek above And ak hove	Anbo Lek	Anbore.
	a) Value of 60 °C of field-wiring terminal box not exceeded	otek Anbotek Anbotek	Ambore
Anbo	b) Surface of flammable liquids and parts in contact with this liquids	nbotek Anboto An	ek N Anb
	c) Surface of non-metallic enclosures	Anboten And tek	botek P
nbotek	d) Parts made of insulating material supporting parts connected to mains supply	Anbotek Anbotek	AnbotN
10.4	Conduct of temperature test	Anbo, Ar borek	AntPres
10.4.1	Tests conducted under reference test conditions and manufacturer's instructions	tek Aupons Aupotek	Phote
10.4.2	Temperature measurement of heating equipment	abores Anti-	Sk N Wup.
HOL MUI	Tests conducted in test corner	Aupoles Aues	botek N P
10.4.3	Equipment intended for installation in a cabinet or wall	Anbotek Anbotek	Anbore <b>N</b>
Anborotek	Equipment built in as specified in installation instructions	Anborek Anborek	AntoNe
10.5	Resistance to heat	Ann otek Anbotek	lB <sub>loo</sub>
10.5.1	Integrity of CLEARANCE and CREEPAGE DISTANCES	botek Anbotek Anbot	or Panho
10.5.2	Non-metallic ENCLOSURES	Anbotek Anbotek An	P
otek	Within 10 min after treatment:	And Anbotek	Pak
10.5.3	Insulating material	Anto-otek anbotek	Anber Lak
Anbotel	a) Parts supporting parts connected to MAINS supply	potek Anbotek Anbotek	PP Anbot
ak Anbe	b) TERMINALS carrying a current more than 0.5 A	botek Anbores Anb	sel P No
lotek A	Examination of material data; or	Antotek Anbotek Ant	P
notek	in case of doubt::	hotek Anbotek	Wek - sek
worek.	1) Ball pressure test; or	k hotek Anbotek	Anbor P
An	2) Vicat softening testof ISO 306	And stek anbotek	PP

11	Protection against hazards from fluids		- AUT
11.1	Protection to OPERATORS and surrounding area provided by EQUIPMENT	Anborek Anborek A	totek N
abotek	All fluids specified by manufacturer considered	k abotek Anbore	N. N. ek
11.2	Cleaning	tek abotek Anbote	AMN ofel
11.3	Spillage	ek spotek Aupoter	N
11.4	Overflow	hoom ak botek Anbo	N And
11.5	Battery electrolyte	Aupote Aug Polek At	poter A
upole.	Battery electrolyte leakage presents no hazard	Anbore Ane sotek	Anboten

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### Page 32 of 50

Yor	EN 61010-1	Mr. Polek V	Up
Clause	Requirement – Test	Result - Remark	Verdict
Aupor	him tek supotes Aries	ek Aupon Mun	anbores
11.6	Specially protected equipment	otek Anboten Anbo	N
11.7 <sub>anb</sub> o	Fluid pressure and leakage	notek Anbotek Anbo	ek h
11.7.1	Maximum pressure	And otek anbotek Anbo	- ok
ibotek	Maximum pressure of any part does not exceed $P_{RATED}$	Anbotek Anbotek Ar	Anbotek Anbotek
11.7.2	Leakage and rupture at high pressure	Anboter And	Niek
Anboren	Fluid containing parts subjected to hydraulic test if:	stek Anbotek Anbotek	Nanhor
ek bu	a) product of pressure and volume > 200 kPal; and	nbotek Anbotek Anbot	N Ant
ootek	b) pressure > 50 kPa	Anbore An	N
Anbotek	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	otek Anbotek Anbot	N
11.7.4	Overpressure safety device	dip.	- br.,
*ek	Does not operate in NORMAL USE	Anto tek abotek Ant	N
Anbotek Jo.	a) Connected as close as possible to parts intended to be protected	Anbotek Anbotek	Anborek
Anbotek	b) Easy access for inspection, maintenance and repair	ek Anbotek Anbotek	N <sub>Otel</sub>
Ann	c) Adjustment only with TOOL	bote. And otek Anbote	Nanbi
P.U.	d) No discharge towards person	Anbores Anb	Stell N A
oter	e) No HAZARD from deposit of discharged material	Anbores Anbo	nborekN
upolek	f) Adequate discharge capacity	Anbotel And	nboN <sup>k</sup>
Anbotek	No shut-off valve between overpressure safety device and protected parts	ok Anbotek Anbotek	Notek

V	oten Auto tek about All	And And	
12	Protection against radiation, including laser so ultrasonic pressure	urces, and against sonic and	yek Ant
12.1	Equipment provides protection	Anbotek Anboten A	N
12.2	Equipment producing ionizing radiation	k hotek Anbotek	And N .ek
12.2.1	Ionizing radiation	k Potek Aupotek	N
12.2.1.1	Equipment meets the following requirements:	ore And otek anbotek	Nupo
otek And	a) if intended to emit radiation meets requirements of 12.2.1.2; or	hbotek Anbotek Anbo	ek N Anb
nbotek	tested, classified and marked in accordance to IEC 60405	Anbotek Anbotes Ar	Anbot N





### Page 33 of 50

da Ov	The state william of	Pili.	786
Clause	Requirement – Test	Result - Remark	Verdict
Ann	b) if only analysis about a distinct an action as a single of the	Ant otek Anbotek	Pupo.
	b) if only emits stray radiation meets requirements of 12.2.1.3	otek Anbo. Anbotel	N <sub>Anbo'</sub>
12.2.1.2	Equipment intended to emit radiation	hoofe, And Lotek Andr	N An
le. Yu.	Effective dose rate of radiation measured	Anbote And wotek	botek N
bote.	If dose rate exceeds 5 μSv/h marked with the following:	Anbotek Amb	Anbo'N nek
An. Hotek	a) Symbol 17 (ISO 361)	ak hotek Anboten	Ann
VII.	b) Abbreviations of the radionuclides:	An hotek Anboten	N
K Arro	c) With maximum dose at 1 m;or	Toole And Solek Anbo	N Mu
ootek An	with dose rate value between 1 μSv/h and 5 μSv/h in m	Anbotek Anbotek Ar	botek N
12.2.1.3	Equipment not intended to emit radiation	botek Anbote	Nek Nek
Anbotek	Limit for unintended stray radiation of 1 µSv/h at any easily reached point kept	lek Anbotek Anbotek	An N Anbore
12.2.2	Accelerated electrons	potek Anbor An	N N AN
JK Anb	Compartments opened only by the use of aTOOL	anbotek Anbot An	otek N
12.3	Ultra-violet (UV) radiation	Conformity test under consideration	rupotek-
Aupotek	No unintentional and HAZARDOUS escape of UV radiation:	ek Anbotek Anbotek	Anb N
anbotek	- checked by inspection; and	otek Anbotek Anbote	N
k upo	- evaluation of RISK assessment documentation	stek nbotek Anbot	N
12.4	Microwave radiation	Anton tek anbotek Antho	7/- I
iek b	Power density does not exceed 10 W/m <sup>2</sup> :	Anbor sek sporek	N N
12.5	Sonic and ultrasonic pressure	Aupo, W. upotek	Aupole,
12.5.1	Sound level	k Aupon his projek	MN
Anbo	No HAZARDOUS sound emission	otek Anbo ak abote	N'upo
tek Anbo	Maximum sound pressure level measured and calculated for maximum sound power level as specified in ISO 3746 or ISO 9614-1	Anbotek Anbotek Anb	otek N A
hotek	Instruction describes measures for protection	Anborek Anbo	nbo'N
12.5.2	Ultrasonic pressure	Anborek Anto	New
Anborek	Equipment not intended to emit ultrasound does not exceed limit of 110 dB between 20 kHz and 100 kHz	obotek Anbotek Anbotek	N Anbo
ek Anl	Equipment intended to emit ultrasound:	obotek Anbotek Anb	atel N
V.	Outside useful beam does not exceed limit of 110	Aug Molok Di	N





### Page 34 of 50

of er	EN 61010-1	Anbotek Anbo	nbotek
Clause	Requirement – Test	Result - Remark	Verdict
Anbore	hus not upotek trush	ek Anbor An	anborek
	If inside useful beam above values exceeded:	otek Anbotek Anbo	Noote
k Anb	Marked with Symbol 14 of Table 1	otek anbotek Anbo	N N
Jek ,	and following information in the documentation:	Anbotek Anbo	N
tek	a) dimensions of useful beam	And stek anbotek Ar	N
nbo	b) area where ultrasonic pressure exceed 110 dB	Anbo tek nbotek	Ambo'N
Aupo.	c) maximum sound pressure inside beam area	Anbo tek abotek	AUN.
12.6	Laser sources	otek Aupo, ek apotek	Mpose
Anbo	Equipment meets requirements of IEC 60825-1	Jootek Anbor Ak hot	ek N Anb

13	Protection against liberated gases, explosion a	nd implosion	abotek
13.1	Poisonous and injurious gases and substances	No injurious gases	Nek
Anbotek	No poisonous or injurious gases or substances liberated in NORMAL CONDITION	lek Anbotek Anbotek	Notek
Amo	Attached data/test reports demonstrate conformity	bote. And otek anbot	N Anbo
13.2	Explosion and implosion	Anbotes Anti-	otek Ar
13.2.1	Components	Anboten Anb	abotek.
Anbotek	Components liable to explode:	Anbotek Anbe	anberek
Anbotek	Pressure release device provided; or	ek Aupotek Aupo	Notek
Aupote	Apparatus incorporates OPERATOR protection (see also 7.7)	botek Anbotek Anbe	N Ambot
Ann	Pressure release device:	Anbore And And	orek An'
lose. b	Discharge without danger	Anbores Ann otek	nbotekN
Anborer	Cannot be obstructed	Anbores And arek	anboN <sup>k</sup>
13.2.2	Batteries and battery charging	k Anbotek Anb	VUPOJEK
Anbotek	If explosion or fire hazard could occur:	otek Anbotek Anbo	- nbote
k Aupo	Protection incorporated in the equipment; or	hotek Anboten Anbo	ek N
otek Ar	Instructions specify batteries with built-in protection	Anbotek Anbotek Anb	ibotek N
nbote	In case of wrong type of battery used:	Anbore K Ans	Anborek
Anbore	No HAZARD; or	Anbore Ann otek	Nick
Anborer	Warning by marking and within instructions	otek Anbote And	Nabote
Aupo,	Equipment with means to charge rechargeable batteries:	nbotek Anbotek Anbo	ek - Anb
notek An	Warning against the charging of non-rechargeable batteries; and	Anborek Anborek Ar	ooter N





### Page 35 of 50

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Aupore	Kup stek supotes Aupo, Mr. Pot.	Anbote, Man	anborek
	Type of rechargeable battery indicated; or	otek Anbotek Anbo	N
k anbo	Symbol 14 used	sotek Anbotek Anbo	N N
utek M	Battery compartment design	in otek anbotek Anbo	N N
stek	Single component failure	And otek anbotek Ar	N
inp.	Polarity reversal test	Anti-	Anbo N
13.2.3	Implosion of cathode ray tubes	No such device used	Aupor
Anbo	If maximum face dimensions > 160 mm:	otsk Aupon tek upotek	Mpor
Aupo	Intrinsically protected and correctly mounted; or	upotek Aupo. Pk upot	ek N Anb
Hek M	ENCLOSURE provides protection:	Anborek Anbor An	orek N p
hotek	If non-intrinsically protected:	anbotek Anbote An	botek
upotek	Screen not removable without TOOL	anbotek Anbote	Nek
notek	If glass screen, not in contact with surface of tube	ok botek Anbote	N rel

14	Components and subassemblies	up. otek Aupotek Aupo.	P
14.1	Where safety is involved, components meet relevant requirements	Anbotek Anbotek An	o P A
14.2	Motors	Anbotek Anbo	abotek
14.2.1	Motor temperatures	sk anbotek Anbou	potek
Anbote	Does not present a HAZARD when stopped or prevented form starting; or	ootek Anbotek Anbote	N Anbore
ootek Ant	Protected by overtemperature or thermal protection device conform with 14.3	Anbotek Anbotek Ank	stek N Anb
14.2.2	Series excitation motors	hotek Anboter	up.
Anbotek	Connected direct to device, if overspeeding causes a HAZARD	k Anbotek Anbotek	Anbotek Anbotek
14.3	Overtemperature protection devices	lotek Anbore K And	N <sub>inbote</sub>
k Aup	Devices operating in a SINGLE FAULT CONDITION	abotek Anbore Ann	tek N anb
jotek p	a) Reliable function is ensured	abotek Anbores Anb	dekN
anbotekek	b) RATED to interrupt maximum current and voltage	Anbotek Anbotek	AnborN-
Vupo,	c) Does not operate in NORMAL USE	Aupo, Ay, Potek	An Notes
Anbound Anbo	If self-resetting device used to prevent aHAZARD, protected part requires intervention before restarting	hbotek Anbotek Anbotek	N. bose
14.4	Fuse holders	Anbotek Anbo	potek N A
abotek	No access to HAZARDOUS LIVE parts	aupotek Aupo. W	Non





### Page 36 of 50

	EN 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
Aupore	Kup stek supotes Aupo, W. Most	Aupore. Mun	anborek
14.5	Mains voltage selecting devices	btek Anbotek Anbo	N
L Anbo	Accidental change not possible	sotek Anbotek Anbo	N
14.6	Mains transformers tested outside equipment	in otek anbotek Anbo	N
14.7	Printed wiring boards	And stek anbotek Ar	N
Anbotek	Data shows conformity with V-1 of IEC 60695-11-10 or better; or	Anbotek Anbotek	Anborn N
Anbotek	Test shows conformity with V-1 of IEC 60695-11- 10 or better	tek Anborek Anborek	Nanhore
tek bu	Not applicable for printed wiring boards with limited-energy circuits (9.4)	nbotek Anbotek Anbo	otek N Ant
14.8	Circuits or components used as TRANSIENT OVERVOLTAGE limiting devices	Anborek Anbore An	Anbote <b>N</b>
Anbotek	Test conducted between each pair of MAINS SUPPLY TERMINALS	ek Anbotek Anbotek	Ant N
Anbor	No HAZARD resulting from rupture or overheating of the component:	botek Anbotek Anbot	k N
an An	- no bridging of safety relevant insulation	Aupotek Aupo	otek N p
otek	- no heat to other parts above the self-ignition points	Anbotek Anbotek	inbote N

15	Protection by interlocks		Puppo.
15.1	Interlocks are designed to remove a hazard before OPERATOR exposed	potek Aupotek Aupote	Nanbon Nanbon
15.2	Prevention of reactivating	Anborer Anborer Anb	N
15.3	Reliability	hotek Anbotek A	no rek
Yu.,	Single fault unlikely to occur; or	k Polek Aupolek	Anbou N *ek
Arra	Cannot cause a HAZARD	Americk Andotek	N

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

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# Page 37 of 50

Clause	Requirement – Test	Result - Remark	Verdict
Aupore	And thek introfest Andrew total	Anbote. Amb	anborek
Anboien	b) Displays and indicators	otek Anboten Anbo	P
	c) Accessibility and conventions of controls	notek Anbotek Anbo	P
ek w	d) Arrangements of TERMINALS	in otek anbotek Anbo	P
rek	Anborek Anbor Ak hotek Anbore	And otek Anbotek Ar	po,
7	Risk assessment	Anb. rek abotek	Anbor
Anbotek	Rish assessment conducted, if hazard might arise and not covered by claused 6 to 16	Fully covered by clauses 6 to 16	AnN
Anboi	Tolerable rish achieved by iterative documented process covering the following:	botek Anbotek Anbot	ek N
, bu	a) RISK analysis	Anbote And And And	ootek N
oter	identify HAZARDS and estimate RISKS	Anbore. And otek	AnboteN
inpoter.	b) RISK evaluation	Anboten Anb	anb Nek
Anbotek	plan to judge acceptability of resulting risk level based on the estimated severity and likelihood of a rish	ek Anbotek Anbotek	N <sub>bot</sub>
K Ani	c) Rish reduction	abotek Anbore And	otek N
otek	Initial risk reduced by counter measures:	botek Anbore An	N
nbotek	Repeated risk evalution without new risks introduced	Anbotek Anbotek	Anborek
Anbora	Risks remaining after risk assessment addressed in instruction to responsible body:	ek Anborek Anborek	Note
· · · · ·	Information contained how to mitigate these rishs	be tek anbotek Anbore	N
ick l	Following principles in methods of risk reduction applied by manufactuer in giver order:	Anbotek Anbotek Anb	N
potek	1) RISKS eliminated or reduced as far as possible	Anbotek Anbo.	N <sub>X</sub>
Anbotek	Protective measures taken for risks that cannot be eliminated	k Anbotek Anbotek	Anbotel
Anb	User information about residual risk due to any defect of the protective measure	oter And Anbotek Anbotek	N.nb
	Indication of particular training is required	Motek Anboten Anb.	, N
botek k	Specification of the need for personal protective equipment	Anbotek Anbotek A	N <sub>k</sub>
Anbore.	Conformity checked by evaluation of the risk assessment documentation	Anborek Anborek	An Notes

ANNEX F	ROUTINE TESTS	Anbotek	Anbois	protek	Anbo	-	Viso
Die Die	Manufacturer's declaration	abotek	Anboro	bu. otak	20	boter N	PL



# Page 38 of 50

4.4.2	Table: Summary of single fault condtions			stek substek P
Subclause	Titel	Not apply	Carried out	Comments
4.4.2.1	Single fault conditions not covered by 4.4.2.1 to 4.4.2.12	<sup>brek</sup> X	Anbotek	Anbotek Anbot
4.4.2.2	Protective impedance	X	Anbore	Aug Pek aut
4.4.2.3	Protective conductor	botek	Xinbo	Ant
4.4.2.4	Equipment or parts for short-term or intermittent operation	X	k PL	potek Anbotek
4.4.2.5	Motors	X Mal	1010	Anbotek Anbotek
4.4.2.6	Capacitors	X X	unbore .k	Anbore Anbore
4.4.2.7	Mains transformers	botek	X	k kołek Anb
4.4.2.8	Outputs	Anbotek Anbote	X	Short-circuit were applied to all outputs. No hazard.
4.4.2.9	Equipment for more than one supply	ant	X	Anbo ek nbotek
4.4.2.10	Cooling	× X	<b>Upotek</b>	Anbo. Lek- Abotel
4.4.2.11	Heating devices	X	anbotek	Aupor Au
4.4.2.12	Insulation between circuits and parts	X	Napole	k Pupor
Note:	botek Anbore Anboret	Anbo	k	otek Anbor A

5.1.3 c)	TABLE: N	TABLE: MAINS supply								
Anboten	Marked ra	Marked rating (V)								
Anbo	Number o	Number of phases								
K An	Frequency	Frequency (Hz) Current (mA)								
otek	1200									
work	Power (W	)	- Albo	Arra Pi	otek - Anbot	9/4				
rus - otek	Power (VA	A)	h	pore. And	worek - Ant	over				
Test No	Voltage (V)	Frequency (Hz)	Current (A)	Power in (W)	Power in (VA)	Comments				
	stek - anb	Cle Ville	K - POLOK	Anb.	Tek	Anboro Ans				
Note(s):	ntek .	inbotek Anbot	ak hotek	Anboren	Anbe	Anbotek A				

5.3	TABLE: Durability of markings						
	Marking r	nethod (see no	A	agent			
1) Adhes	sive label	Anbotek	Anbore A	A Water	Anbotek Anbote		
2) Ink pr	inted	arbotek	Anbo,	B Isopropyl alcoho	ol 70%		
3) Laser	marked	orek Anbo	ren Anbo otek	C (specify agent)	ak abotek		
4) Filmco	oated (plastic foil	control panel)	botel And	D (specify agent)	por An abotek		





Page 39 of 50

.V	on plastic (moulded	194	-00	_ (c) - (c)			
	nere applicable inclu which marking is fixe	de print method, labe d.	I material, ink or p	paint type, fixing m	ethod, adhesive and		
	N	Marking location		Marking metho	d (see above)		
Aupo	- Identification (5.1	.2)		Aupo.	h. abotek Anbot		
Anbo.	- Mains supply (5.	1.3)		Aupo.	Antotek Ant		
tek Anl	- Fuses (5.1.4)	Papole, V	ni and	otek Anbo.	k spotek		
ibotek otek		ections and operating		Anborek Anbor	otek Anbotek		
Ann	No.	cuit-breakers (5.1.6)	Anbore	And	inbotek Anbo		
AUD	- Double/reinforce	d equipment (5.1.7)	ek hup <sub>bles</sub>	And	Anbotek Anbo		
Anto	- Field-wiring TER	MINAL boxes (5.1.8)	Pupote,	And	Anbotek Anb		
Pup.	- Warning marking	ıs (5.2)		oter Anti-	k supotek		
Metho	d Test ager	Remains legibl Verdict	e Label loose Verdict	Curled edge Verdict	Comments		
Anbo.	A, B	bote P nek	ambot P	Aroo. P	bolek Ploter		
Note(s):	Pr.	abotel Anu	v wotek	Anbo. P	rek abote		

6	TABLE: Protection against electric shock								otek N Ar
potek Ar	Block diagram of the system:								
abotek	Pollution deg	ree	Mipoter	An	00-	3	arek Ar	porc	
nbotek	Overvoltage i	nstallation c	ategory	KON.	Anbe.	, III	abotek	Aupore	
Location o	1 tvn2	working	Cree	page dist	tance (no	ote 3)	Clearan ce (note	Test voltage	Comments
description	(note 1)	voltage (note 2)	PWB	CTI	Other	CTI	3) mm	(note 2)	
lotek An	100, V	notek-	Aupolen	AUD	rek-	a nbatek	- Pupo,	- bu.	horek-
BI = BASIC DI = DOUBI PI = PROTE RI = Reinfo	Type of insulation INSULATION LE INSULATION ECTIVE IMPERICE INSULATION INSULA	DN DANCE TON	NOTE 2 – 1 Peak impul		oltage (p	ulse) (	CATEGORI	ES (OVER ES) or PO which diffe hown unde	VOLTAGE LLUTION or from these

6.2	TABLE: Determination of accessible parts								
ŀ	tem	Description	Determination method	Exception under 6.2.1					
Anbotek	Anborek Anborek	Examination	The jointed test finger (see figure B.2) is applied in every possible position	Anbore Anbore					
Note(s):	otek Vupo.	tek abotek Anb	ore. And work And	Jotek Anbo Lek					





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

Page 40 of 50

	2.5 TABLE: Impedance of protective bonding of permanently connected equipment							
ACCESSIB	LE part under test	Voltage atta	ained (s)	Time for voltage below allowable		Res	ult	
VII. Polek	Anboten An	otek	anbotek	Anbor P	in hotek	Anboren -	Anb	
Note(s):	Anboten	Anbo	Anbotek	Anbore	All botek	Anbotek	Aupo	

6.7	TABLE: Insulation requirements						
8	Resistan	ce to mechai	nical stresses	abotek Anboti	And	anboten N	
10.5.1	Integrity	of CLEARANCI	ES and CREEPAGE DIS	TANCES	John And	K ant Niek	
	Location		initial CREEPAGE DISTANCE (mm)	Initial CLEARANCE (mm)	Maximum working voltage (V)	Comments	
ek ar	potek b	upo.	abotek Anbote	An-	anbatek	inpo.	
Note(s):	nnbotek	Anbo	Pr. Potek Pupo	And And	k Anbotek	Aupo.	
	cal tests, e (N)	Static	Dynamic	Drop test, normal	Drop test, hand- held	Comments	
, botek	Anboro	K VUD	yek antoyek	Anbo	Anborek Anbore	k Ann Lotek	
Note(s):	ek Anbo	YUN.	otek Anbotek	Aupor	hotek Anbo	Aug Vie	

Anbotek
_

6.10.2	TABLE: Cord	anchoraç	ge tests				N <sup>4</sup> e <sup>4</sup> N
Loc	cation	Mass kg	Pull N	Verdict	Torque Nm	Verdict	Comments
Anbotek	Anbo	r. aborek	Aup	P	Morek- An	otek - Anbu	rek - abotek
Note(s): No	cord provided	1, 100l	ek b	nboto	And	Anbotek Anbe	ek both





8	TABLE	: Resistance	to mechanica	al stresses			abo <b>P</b> <sup>K</sup>
Llocatio	on	Static	Dynamic	Drop test, normal	Drop test, hand-held	Result	Comments
Enclosu	ire	nbotek p	Pass	abotek_ p	Pole Au	Pass	potek Anbo

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

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

9	TABLE: Protection against the spread of fire			Pobořek
Item	Source of hazard or area of the equipment considered (circuit, component, liquid etc.)	Protection method (9a, 9b, 9c)	Protection details	Comments
Plastic parts	ocek Anbore An-	9a	anbosek.	Aupore Au
Note(s):	nbotek Anbote Ansotek Anbotek	A.ribo	hotek	Anbore

9.3.1	TABLE: Containment of fire within the equipment	nt	Noore
14.7 Maria	Printed wiring boards	upotek Aupor ok hotek	N Mpc
Anb Anb	Material tested:	anbotek Anbote Ane	
otek p	Generic name:	anbotek Anbote Ar	
abotek	Material manufacturer:	nbotek Anbote	
nbotek	Type designation:	ek nbotek Anbote	
abotel	Colour ::	tek upotek Aupote	
k ~/pc	Conditioning details	oo Anborek Anbor	
otek A	Thickness (mm):	1 - 2 - 3 -	
Anbotek	Duration of flaming after first application (s):	1 – 2 – 3 -	
tek And	Duration of flaming plus glowing after second application (s):	1 - 2 - Mindred 1 - 3 - Mindred 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
Anbotek Anbotek	Specimen burns to holding clamp (Yes/No):	1 – 2 – 3 -	
ek Anbot	Cotton ignited (Yes/No):	1 - 2 - 3 -	

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9.4	TABLE: Limited-energy circuit							
	Test details: 1 –Location; 2 – maximum voltage r.m.s./dc.(V); 3 – maximum current (A); 4 – maximum power(VA); 4 – overload protection after 120s(A); 5 – circuit separation; 6 – decision(Yes/No); 7 – comments							
1	2	3	4	5	6	7		
ter An	- otel	Propos	bu Pak	abeler.	And	- Nek		
Note(s):	Anbores And	Anbote	k Aupo,	hotek	Anbore	Ann		

9.5	TABLE: R	TABLE: Requirements for equipment containing or using flammable liquids					
Anbo	Test details: 1 –Type of liquid; 2 –flammable liquids (b. quantity); 3 – flammable liquids (containment); 4 – comments						
1		2	3	4			
	23.6	Vice		Die			

10	TABLE: T	emperatur	e measurements					P
10.1	Surface to	emperature	limits - NORMAL CON	IDITION and /	or SIGNLE FA	ULT CONDIT	TION	PARID
10.2	Temperat	ure of windi	ings- NORMAL CONDIT	ΓΙΟΝ and / or	SIGNLE FAUL	T CONDITIO	N Anh	N A
10.3	Other tem	perature m	easurements	anborek	Aupor	An-	6	inposes P
Operating of	conditions:	Normal wo	rking	abotek	Aupora	r New	otek	
Anbore	Frequency	y (Hz)	otek Anbo	Total Comment	Anbore	P.C.	notek	
Aupolo			abotek Anbo		1 hour	50	min	
ik Aupo	Voltage (\	/)	Pupoyey Vupo	:	potek A	upote	Pur.	
otek Ar	Ambient to	Ambient temperature Ta (°C)						
Anbotek Anbotek	maximum		art/location; 2 – mea e Tm + 40°C – Ta (°0 mments					Anbotek
1		2	3	4		5		6
PCB MODE	er Arc	nbotek-	58.4	100	otek Ar	iboter P	Anbo	rek - Ani
Terminal	botek	Aupolek K	56.2	120	Anbotek	Anborek Popotek	P.C	lpotek
Enclosure	Anborek	Anbore.	47.1	120	Anbo	P Anbo	ek.	Anbore.
Transforme	er Anbote	Vek Vup.	65.9	110	k Anbot	ek P An	pole.	Anbore
Note(s):	Sk Aup	o. b.	abotek Anbote	-K Pilip	otek An	potek	Aupor	ek vr



# Page 43 of 50

10.2	TABLE: Tem	perature of res	sistance me	thod tempe	rature measu	rements	ibotel <sup>k</sup> N P
4.4.2.7	MAINS Transfo	ormers	upos	VII.	Anboten	Anb	N N
14.2.1	Motor temper	atures	Auporon	Am	Anbotek	Vupo.	Neek Neek
Operating	conditions:	, shotek	Anbore	K NO	rek Anbor	Aupo.	.tel
Anbo	Frequency (H	z)	Pupon	Arriv	work Ant	otek Anh	,
rek or	Duration (h, m	nin)	ie <sup>k</sup> pol	ore . A	hour	unbotek min	Anbo
-otek	Voltage (V)	00, 50	gote <sup>k</sup>	Anbore .	N worek	Anbotek	P.L.
otek .	Ambient temp	erature Ta₁/Ta	<sub>12</sub> (°C)	hupoter:	Ana	°C(initial/fina	al)
Anborek		s: 1 – part/desi ′ – result; 8 – co		R <sub>cold</sub> Ω; 3 –	$R_{\text{warm}} \Omega; 4 - T_{\text{I}}$	· (K); 5 – T <sub>c</sub> (°	C);
1	2	3	4	5	6	7	8
lok bu	bose - bus	otek anko	ren Ant	-e/r-	bolek	"Upor - b	rotek an

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
otek p	Test method used:	Anbotes Anbotek	See below	
nbotek	Non operative treatmer	nt	. [ \dagger]	Pek Pek
nbotek	Empty ENCLOSURE	K. Anboten Anbo	. [√]	Protek
abotel	Operative treatment	Anbotel Anbo	· [ tel nbotek Anbore	V VI
	Part	Test temperature (°C)	Duration (h, min)	Verdict
Enclosure		125	Anto Th botek Ant	P
Dr. b	Dielectric strength test	(6.8)	. 500 V r.m.s./peak/d.c	mbore P
Note(s): No	hazardous live parts shal	l be accessible	Auponek Aupotek	Aupole
10.5.3	TABLE: Insulating materials			
10.5.3a)	Ball pressure test	rak abotak An	bote Annatek Anbote	Pinho
Aup	Max. allowed impressio	n diameter	2 mm	yer - Ar
	Part	Test temperature (°C)	Impression Diameter (mm)	Verdict
poter	Terminal	125	Anboree 1.0 And	onboP <sup>k</sup>
Anbotek	PCB	125	Anbore 1.2 And tek	Potek
Anbotek	Enclosure	125	otek Anbotan Anbotak	Pobot
Note(s): No	hazardous live parts shal	l be accessible	anbotek Anbotek Anbo	itek Ani
10.5.3	TABLE: Insulating mate	rials		notek N
10.5.3b)	Vicat softening test (ISC	O 306)	anbotek Anbote A	N
	Part	Vicat temperature (°C)	Thickness of sample (mm)	Verdict





# Page 44 of 50

Report No.	. 18250SC00088401
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ofer	Anbou	Anbotek	Aupora	Projek.	Anbotek	Anbou	Napotek - F
Note(s):	Anbotek	Anbotek	Anbore	Ambotek	Anboten	Anbotok	Anborek

11	TABLE: P	rotection ag	jainst hazard	hazards from fluids					
tek And	Measurements: 1 – location; 2 – cleaning; 3 – spillage; 4 – overflow; 5 – equipment plus liquid; 6 – working voltage (V); 7 – test voltage (V); 8 – result; 9 – comments								
1	2	3	4	5	6	7	8	9	
-46	abetek.	Vupo.	oto	k - anboy	- BUL	-ak	~potek	Aupo.	

11.7.2	TABLE: Leaka	ge and rupture at	t high pressure	!		ek N Vupo
Part	Maximum permissible working pressure (Mpa)	Test pressure (Mpa)	Leakage test Yes / No	Burst test Yes / No	Comi	ments
Vun-	Anbotek	Anbo A	-botek- Ar	poter Ann	otek - napo	sk -bupo.
Note(s):	ek anbotek	Aupon	abotek.	Anbores Ar	in otek ar	potek Aupo
11.7.3	TABLE: Leaka	ge from low-pres	sure parts			Jotek N An
Dote. Vu	Measurements:	1 - ; 2 – (Pa); 3 –;	4 - botek	Anbote	Amb	upotek
	Part	Test press	ure Leal	(Yes/No)	Com	ments
Anboren	Anboatek	Anbotek An	por Air	notek- Anbot	e And	ar Anborek
Note(s):	Anbo	anbotek	Anbore An	hotek An	poten Anbe	otek anbote

12.2.1	TABLE: Ioniz	ing radia	tion						N
Lo	cation	Measur	ed values µ	Sv/h	V	erdict		Co	mments
Tur Jek	- anbotek	Aupo.	k hot	N <sub>S</sub>	Aupole.	Pur	- otek	anbotek	- Anbo.
Note(s):	Anbotek	Vupo.	rak at	potek	Anbore	P	'us rotek	anbor	Aupo.
12.5.1 TABLE: Sound level r		nd level n	neasuremen	its					Nanbo
		Measured values dBA			Calculated maximum sound pressure level				
botek	Anbote. An	nek p	nbotek	Pup	o,	Pr.	rek	Pupote.	Aug
Note(s):	Anborer	Anbaratek	- Anbote	ik.	upor	bi.	hotek	Anboren	And
12.5.2	TABLE: Ultra	sonic pre	essure meas	suremer	nts				ATN ON
Location		Measured values				Comments		nts	
			dB kHz						
in bu.	hotek An	over	Anbe	- nbc	rek I	YUPO'S	- K - D'L.	notek	Anbotek
Note(s):	Yun Tek	anbotek	Anbo	Ь., Ро.,	hotek	Anbo		Ann	Anbotek





13.2.2	TABLE: Batteries tes	sts				N <sup>k</sup>
Anbotek	Battery load and char	ging circuit diagram	Plur.	Anbotek	Aupo.	
nhotek	Battery type:					
Anbor	Battery manufacturer	" Parage	An)	tek Anbotek Anbot		
rek no	Battery model	by Boy	oter . Inte	otek anb	olek Vi	/pc
stek	Battery catalogue No.		aboter . Ant	niek .	nbotek	P <sub>1</sub>
upo	Battery ratings	The state of the s	popolei.	Anboatek	nbotek	
Aupa.	Reverse polarity insta	lment test	Anboten	Anbo	Anboiek	MA
Single	component failures			Verdict		<u>.</u>
	Component	Open cir	cuit, result	,	Short circuit,	result
lek but	tek hotek	Hupore Will	Lotek Anb	oter Aup.	rek _	anbotek Ar
Note(s):	Anbo. Lek abotek	Anbore. A	notek p	inpotek b	upo	abotek

14.1	TABL	E: Compo	onents						Poor
Object/pa	rt No.	Manu turer/tra		Type/n	nodel	To	echnical data	a	Mark(s) c
Se. Vun	rek	abote	J. Allo	- Ar	". "otek	Vupote.	Ano	ek al	ootek
potek p	upo,	, no	otek P	upoter	bus, Potely	Anbore	yk Aupo	sek pri	nborek
Anbotek	VUPP	You	abotek	Aupole	bu.	ek anb	oter bu	*ek	abotek

14.3	TABLE: Overtemperature protection devices					
Reliability te	est:					
Component		Type(see note)	Verdict	Comments		
Yun Pulek	anbotek	Vupo, W. Volek	Anbore And	Anbotek Anbo		
Noto(c):	otek	Vupor by	shore And	otek Anbo.		

NSR = non-self-resetting (10 times)

NR = non-resetting (1 time)

SR = self-resetting (200 times)

14.6	TABLE: Mains transformers tested outside equipment					
Anbo	Type:	Anbotek Anbotek				
Ana	Manufacturer:	ore Ann botek Anbotek				
iek bu	Temperature protection class of the lowest RATED winding (class or maximum RATED temperature):	inbo, Wanpotek Aupo				
botek	Winding identification:	Anbotek Anbot A				

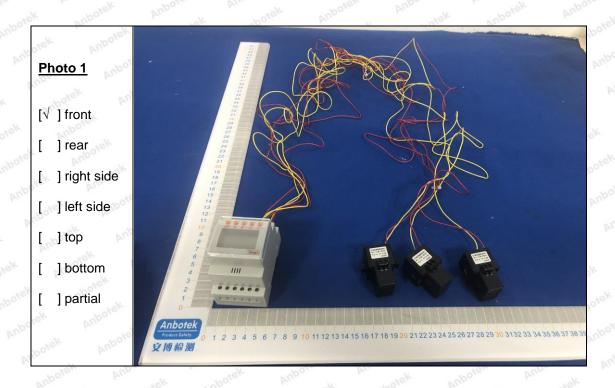


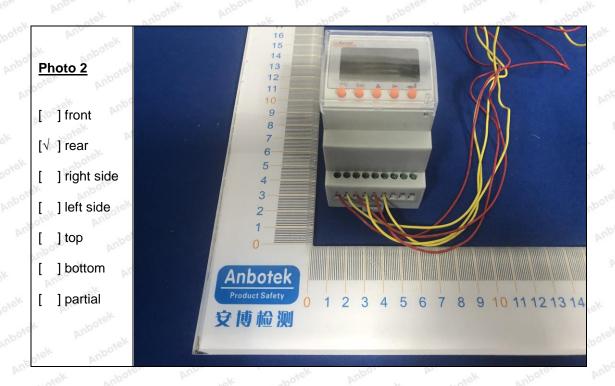


# Page 46 of 50

- N	Type of protector for winding	Anbo ak ho	ek p
		Short circuit	Over load
Anbore	Elapsed time:	M 1s	hotek 1s Anbotek
Anbole	Current, primary (A)	otek habote	Anbore Anbore
Anbor	Current, secondary (A):	abotek Anbote.	And Lotel And
iek Au	Winding temperature, primary (°C)	abotek Anbote	Anv -otek
botek	Winding temperature, secondary (°C):	Anbor	And
botek	Tissue paper/cheesecloth test:	k sporsk Au	John And John
An. Potek	Voltage test	A otek	Anboten Anb
Note(s): No	any transformer used.	Die Die	abotek Anbo

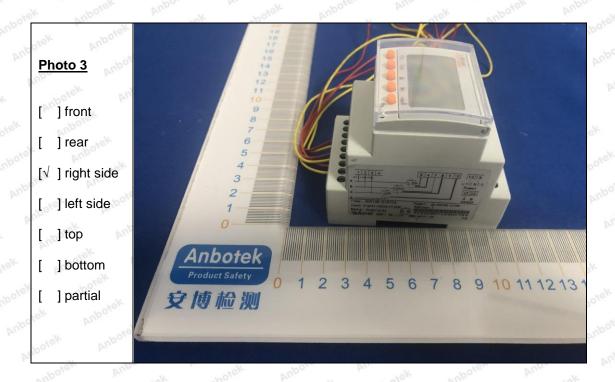


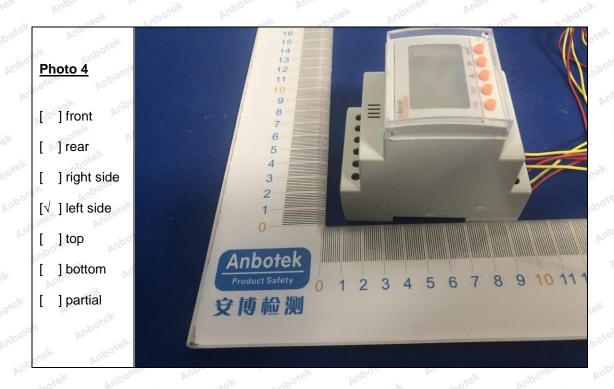














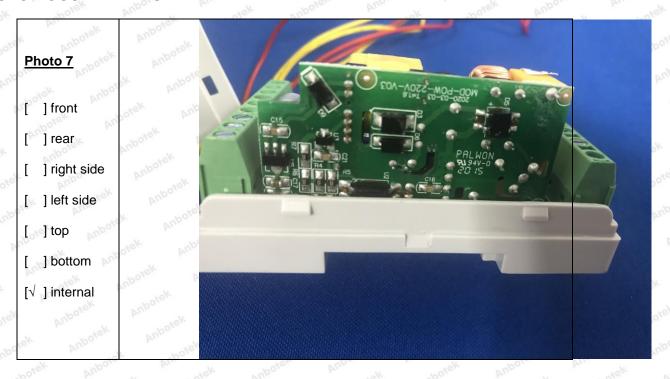


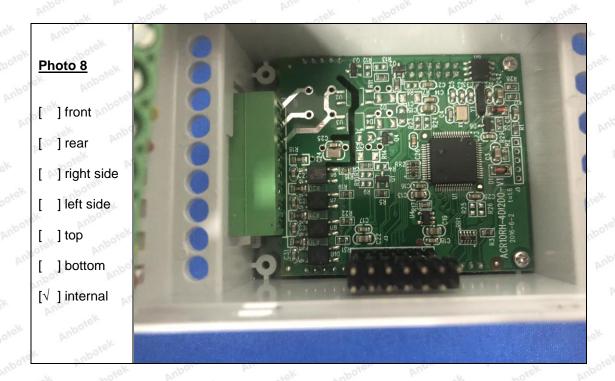


# Photo 6 [ ] front [ ] rear [ ] right side [ ] left side [ ] top [ ] bottom [√ ] internal









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