

Report No.: 18250SC30009301

# **Test Report**

Client Name : Acrel Co., Ltd.

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

Product Name : Power Meter

Date : Mar. 14, 2023







# **TEST REPORT** IEC 61010-1

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

Report Number.....: 18250SC30009301

**Date of issue.....:** Mar. 14, 2023

Total number of pages .....: 54 pages

Name of Testing Laboratory

preparing the Report .....:: Shenzhen Anbotek Compliance Laboratory Limited

Applicant's name .....: Acrel Co., Ltd.

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

Test specification:

Standard....:: IEC 61010-1:2010, IEC 61010-1:2010/AMD1:2016

Test procedure .....: **CB Scheme** 

Non-standard test method .....: N/A

TRF template used.....: IECEE OD-2020-F1:2020, Ed.1.3

Test Report Form No. .....: IEC61010\_1P

Test Report Form(s) Originator ....: VDE Prüf- und Zertifizierungsinstitut GmbH

Master TRF.....: 2021-04-12

#### General disclaimer:

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

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Tested by (name, function, signature)	James Zhang Project Engineer	James 2hang
Approved by (name, function, signature)	Jeff Zhu Project Manager	Jell hu



Test item description ....:: **Power Meter** 

N.A.

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

ADL400-D, ADL400-U, ADL400-C, ADL400-F, ADL400, Model/Type reference.....

ADL400-FC

3×230/400V, 3×66/115V, 0.1-10(80)A, 0.1-0.5(80)A, 0.01-1(6)A, Ratings.....

3~10(80)A, 3~1(6)A, 0.01-0.05(6)A, 45-65Hz

#### List of Attachments (including a total number of pages in each attachment):

Attachment 1: EU difference

Attachment 2: Photo documentation

## Summary of testing:

#### Tests performed (name of test and test clause):

The submitted samples were found to comply with the requirements of:

EN 61010-1:2010+A1:2019

#### **Testing location:**

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

#### Copy of marking plate:

The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective NCBs that own these marks.

#### **Power Meter**

Model: ADL400-D

Rating:  $3 \times 230/400 \text{V}$ ,  $3 \times 66/115 \text{V}$ , 0.1-10(80) A, 0.1-0.5(80)A, 0.01-1(6)A,  $3\sim10(80)A$ ,  $3\sim1(6)A$ ,

0.01-0.05(6)A, 45-65Hz

Manufacturer: Jiangsu Acrel Electrical

Manufacturing. Co., Ltd

Address: No.5, Dongmeng Road, Nanzha, Jiangyin,

Jiangsu, China **Importer: XXX** Address: XXX











Test item particulars	
Pollution degree	
Pollution degree  Protection degree  Operating conditions	: Class I equipment
Operating conditions	: Continuous operation
Connection to supply mains	: AC inlet
Special protection to IEC 60529	: IP20
Possible test case verdicts	hotek Anbotek Anbo tek abotek A
	: N (N.A.)
- test object does meet the requirement	: P (Pass)
- test object does not meet the requirement	: F (Fail)
Testing tell Ambour	and tek Anbotek Anbot All the
Date of receipt of test item	: Feb. 27, 2023
Date of receipt of test item	: Feb. 27, 2023 to Mar. 07, 2023
General remarks	Anbotek Anbotek Anbotek
The test results presented in this report relate only to	o the object tested.
This report shall not be reproduced, except in full, wi	ithout the written approval of the issuing testing laboratory
"(see ENCLOSURE #)" refers to additional information	n appended to the report.
"(see Form A.xx)" refers to a Table appended to the	report.
Bottom lines for measurement Tables Forms A.xx ar	e optional if used as record.
Throughout this report a $\square$ comma / $\boxtimes$ point is	s used as the decimal separator.
Name and address of factory (ies)	: Jiangsu Acrel Electrical Manufacturing. Co., Ltd
	No.5, Dongmeng Road, Nanzha, Jiangyin, Jiangsu,
	China
	nbo Offilia Anti-







elt	Anbore	Anburger	Anborek	IEC 61010-1	Anbotek	Anbores	Anbubotek	Anbo
Cla	ause 🙌	Requirement – Tes	t Anboten	Ano. Potek	Result -	Remark	k An	Verdict

4.4 otek	TESTING IN SINGLE FAULT CONDITION	k botek Anbote	Ans Prek
4.4.1	Fault tests	ok hotek Anboten	Anb P
4.4.2	Application of fault conditions	rk Hotek Anbotek	P
4.4.2.1	Single fault conditions not covered by 4.4.2.1 to 4.4.2.12	See appended table	otek - Aug
4.4.2.2	Protective impedance	No protective impedance required	Anbore N
4.4.2.3	Protective conductor	Anbor Ar. botek	AnbPier
4.4.2.4	Equipment or parts for short-term or intermittent operation	No such parts	Noote
4.4.2.5	Motors	or rek supotek Aupor	P Ame
4.4.2.6	Capacitors	Anbo tek anbotek Ant	P AT
4.4.2.7	Mains transformers	Anbo. A. abotek	inpole N
4.4.2.7.2	Short circuit	Anbo. All abotek	AnbN
4.4.2.7.3	Overload	sk Aupon ak motek	AN ofer
4.4.2.8	Outputs	otek Anbor Ar hotel	N <sub>Anbot</sub>
4.4.2.9	Equipment for more than one supply	nbotek Anbote Am	N And
4.4.2.10	Cooling	abotek Anbore And	workP
4.4.2.11	Heating devices	abotek Anbote. A	N
4.4.2.12	Insulation between circuits and parts	k botek Anbotes	And N tek
4.4.2.13	Interlocks	ak botek Anboter	N <sup>A</sup>
4.4.2.14	Voltage selectors	or Anbotek Anbotek	Nupa
4.4.3	Duration of tests	inbore Ame Sotek Anbo	b but
4.4.4	Conformity after application of fault conditions	Anbore And stek	boten P

5 <sub>Anboře</sub>	Marking and documentation		An Prek
5.1.1	General	otek Anbotek Anbo	Pubotel
Anbot	Required equipment markings are:	hotek Anbotek Anbo	ek - nb
rek an	Visible:	hotek Anbotek Anbo	P P
Lotek	From the exterior; or	And Lotek Anbotek Ar	P
ip. siek	After removing a cover; or	Ann otek anbotek	Anbo N
Aup. otek	Opening a door	And otek anbotek	VUN.
VUP	After removal from a rack or panel	ter Ann stek anbotek	Npor
rek Anbo	Not put on parts which can be removed by an operator	botek Anbotek Anbot	N Anbo









Clause	Requirement – Test	Result - Remark	Verdict
otek	Pulpager Yupo Fek Upolek Vilhous	Anbotek Anbotek Ar	o tek
Lotek	Letter symbols (IEC 60027) used	Anbotek Anbotek	Anbo. Prek
Pur Polek	Graphic symbols (IEC 61010-1: Table 1) used	k hotek Anbotek	Anba.
5.1.2	Identification	See below	Pupo
N. Muss	Equipment is identified by:	bores Anbot	P AT
, bur	a) Manufacturer's or supplier's name or trademark	(see marking plate for details)	o <sup>tek</sup> P
Ofer P	b) Model number, name or other means	(see marking plate for details)	nboteP
inbotek botek	Manufacturing location identified	Not required: unitis manufactured at one location	Anb Pek
5.1.3	Mains supply	k hotek Anbotek	PUPP
Pub.	Equipment is marked as follows:	boun Wing	e An
Vien	a) Nature of supply:	Anbore And otek Ant	oter -
potek A	a.c. rated mains frequency or range of frequencies	Anbotek Anbotek	inbotek P
boiek	2) d.c. mark with symbol 1 of Table 1	ok botek Anbotes	And P
An- hotek	b) Rated supply voltage(s) or range	See page 3	P
bu.	c) Max. rated power (W or VA) or input current	See page 3	PAR
tek bur	The marked value not less than 90 % of the maximum value	Anbotek Anbotek Anb	otek N
botek	If more than one voltage range:	Projek Vupore, b	N
bořek	Separate values marked; or	k botek Anbote	Ans N
An borek	Values differ by less than 20%	ak botek Anbotes	Ň
bir.	d) Operator-set for different rated supply voltages:	No such device	DU
Pr.	Indicates the equipment set voltage	inbote Am Hotek Anbo	N
botek An	Portable equipment indication is visible from the exterior	Anbotek Anbotek A	ibotek N
bořek	Changing the setting changes the indication	L abotek Anbote	N <sub>rel</sub>
Anbotek	e) Accessory Mains socket-outlets accepting standard MAINS plugs are marked:	stek Anbotek Anbotek	Anb
k Anbor	With the voltage if it is different from the mains supply voltage	Opotek Aupor	e <sup>N</sup> N
18K	For use only with specific equipment	Anbo tek nbotek Ar	N
unbotek	If not marked for specific equipment it is marked with:	Anbotek Anbotek	Anbore.
anbotek	The maximum rated current or power; or	tek Anbotek Anbot	N
hotel	Symbol 14 with full details in the documentation	ok hotek Anbor	N







Clause	Requirement – Test	Result - Remark	Verdict
Clause	Requirement – Test	Result - Remark	verdict
,boto	Operator replaceable fuse marking	Auport Au	Aupoter
Anboten	(see also 5.4.5)	Anbotes And botek	Anbotek Anbotek
5.1.5	Terminals, connections and operating devices	ctek Aupo, ok Wi.	Papote
5.1.5.1. <sup>000</sup>	General	abotek Anbore And	ak P <sub>An</sub> i
otek Ant	Where necessary for safety, indication of purpose of TERMINALS, connectors, controls and indicators marked	Anbotek Anbotek An	otek P
nborek	Insufficient space, symbol 14 used	anbotek Anbote	Nek
Anbotek	Push-buttons and actuators of emergency stop devices and indicators:	ek Anbotek Anbotek	N Anbore
Anbo	used only to indicate a warning of danger or	potek Anbo	K NAME
Aup Vup	the need for urgent action	Aupotek Aupon bu	over N
otek l	coloured red	Aupotek Aupon Au	abote N
nbotek	coded as specified in IEC 60073	Aupotek Aupo	N.K.
Anbotek	Supplementary means of coding provided, if meaning of colour relates (see IEC 60073):	ak Anbotek Anbotek	N <sub>Ore</sub>
Anbo	to safety of persons; or	boter Anboniek Anbore	Noup
Anb	safety of the environment	Anbotek Anbe	otek N P
otek p	Indication of emergency stop devices	Anbotek Anbo tek	abotekN
5.1.5.2	Terminals	Anbotek Anbo	abotok
Anbotek	Mains supply terminals identified	ek Anbotek Anbo	Note
nborek	Other terminal marking:	otek anbotek Anbot	bu.
- 100	a) Functional earth terminals (symbol 5 used)	tek nbotek Anbote	N
ek p	b) Protective conductor terminals:	rupe tek upotek Aupo	P
. ek	Symbol 6 is placed close to or on the terminal;	Anbo sek abotek A	Postor P
ipo.	Part of appliance inlet	Anbo kek abotek	AnbotN ,
Aupo,	c) Terminals of control circuits(symbol 7 used)	Anbo. A. botek	AnN
Anbo,	d) Hazardous live terminals supplied from the interior	otek Anbotek Anbotek	Pupo,
ek no	Standard mains socket outlet; or	ho stek Anbotek Anbo	N
-tel	Ratings marked; or	And tek anbotek Ar	N
bo rek	Symbol 14 used	Anbu tek abotek	Aupold N
5.1.6	Switches and circuit-breakers	Anbox As abotek	ANN
Anbor	If disconnecting device, off- position marked	tek Aupon America	Noo
Anbot	If push-button used as power supply switch:	potek Anbore An	ok N An
In Ys	Symbol 9 and 15 used for on-position	otek Anbotes Anos	arek N









Clause	Requirement – Test	Result - Remark	Verdict
otek .	nbotes Anbo	Anti-	oo,
ov tek	Symbol 10 and 16 used for off-position	Anbotek Anbotek	Anbore N. ak
Anbo	Pair of symbols 9, 15 and 10, 16 close together	Anho tek Anbotek	Ambore N
5.1.7	Equipment protected by double insulation or reinforced insulation	botek Anbotek Anbotek	N N
k Anb	Protected throughout (symbol 11 used)	botek Anbotek Anbo	N V
otek A	Only partially protected (symbol 11 not used)	Anborek Anbores An	N
5.1.8	Field-wiring terminal boxes	No such parts	Aupo
And motek	If terminal or enclosure exceeds 60°C:	k hotek Anbotel	Vupo.
Aug - Otek	Cable temperature rating marked	k notek Anbotek	N
k Aupo	Marking visible before and during connection or beside terminal	potek Anbotek Anbote	NAME NAME
5.2	Warning markings	abotek Anbote Ant	-otel-
-hotek	Visible when ready for normal use	Anborek Anbores	Pik
hotek	Are near or on applicable parts	ak botek Anbotes	Anb P stek
Pur Potek	Symbols and text correct dimensions and colour:	-k hotek Anbotek	P
Anbot	a) symbols min 2,75 mm and text 1,5 mm high and contrastingin colour with background	obotek Anbotek Anbote	Hek Anno
itek An	b) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and	Aupotek Aupotek Aup	nbotekP
<b>Anborek</b>	0.5 mm depth or raised if not contrasting in colour	k Anbotek Anbotek	Anborek botek
Anborek	If necessary marked with symbol 14	rek anbotek Anbote	P
tek Vupo <sub>te</sub>	Statement to isolate or disconnectif access byusing a tool to HAZARDOUS LIVE parts is permitted	inbotek Anbotek Anbo	P An
5.3	Durability of markings	Markings are durable and legible	anbotek
Anborek	The required markings remain clear and legible in normal use	(see appended table)	An Prek
5.4	Documentation	ok hotek Anbotes	And
5.4.1	General	hbote Ambotek Anbot	P Ani
ootek p	Equipment is accompanied by documentation for safety purposes for operator or responsible body	Anbotek Anbotek An	oo <sup>tek</sup> P
Aupotek	Safety documentation for service personnel authorized by the manufacturer	Anbotek Anbotek	Aupolek
Anborratel	Documentation necessary for safe operation is provided in printed media or	tek Anbotek Anbotek	Ripore







Clause	Paguiroment Toot	Result - Remark	Mordica
Jause	Requirement – Test	Result - Remark	Verdict
oote	Documentation includes:	Anbore Ant hotek	Aupotek
Anhore.	a) Intended use	Aubote, Aug	Anbatek P
Aupoleu	P. Pole Pole Pub	drok Anboten Anbo	Pipol
Arbote	b) Technical specification	botek Anboten Anbo	. 46
K ANT	c) Name and address of manufacturer or supplier	hotek Anbotek Anbo	P PI
otel	d) Information specified in 5.4.2 to 5.4.6	Ant Antorek Antorek	por P
abotek	e) Information about how to mitigate risks remaining	And botek Anbotek	Aupor B
Anbotek	f) accessories for safe operation of the equipment specified	lek Anbotek Anbotek	Anbot Anbot
	g) guidance provided to check correct function of the equipment, if incorrect reading may cause a	spotek Anbor Ar.	K PAR
	hazard from harmful or corrosive substances of hazardous live parts	Anbotek Anbotek Ant	otek
Nek	h) Instructions for lifting and carrying (see 7.5)	Anto otek Anbotek	My N.
Anbotek	Warning statements and a clear explanation of warning symbols:	ark Anbotek Anbotek	Anbor
Anboter	Provided in the documentation; or	hotek Anbotet Anbo	N
anbo	Information is marked on the equipment	Lotek Anbotek Anbo	N N
5.4.2	Equipment ratings	Anto otek anbotek Anb	-ek
nek	Documentation includes:	And otek anbotek	upor
hbo stek	a) Supply voltage or voltage range	See page 3	Aupo B
Aupo -tek	Frequency or frequency range	See page 3	P.B.
Aupo.	Power or current rating	See page 3	P.nl
ek Aupo	b) Description of all input and output connections in accordance to 6.6.1 a)	unbotek Anbotek Anb	rek P
botek	c) Rating of insulation of external circuits as required by 6.6.1b)	Anbotek Anbotek A	Anboten
Anbotek	d) Statement of the range of environmental conditions	Ambient temperature: -40°C~+70°C	An Pre
a abot	e) Degree of ingress protection (IP, IEC 60529)	IP20	P
SK SI	f) Impact rating less than 5 J	Auto Wek abotek Aupo	Р
NA You	IK code in accordance to IEC 62262 marked or	Aupon An	N
, ak	symbol 14 of table 1 marked, with	Anton All hotek	Anbotek
Vupote.	RATED energy level and test method stated	Anbore And Motek	AriN
.4.3	Equipment installation	clek Aupoter Aug	anb <sup>o</sup>
Anbote	Documentation includes instructions for:	botek Anboten Anbo	
		1/2 - PO.	P







Clause	Requirement – Test	Result - Remark	Verdict
otek	nboten Anbo	And Lotek Anbotek Ar	Do.
tek.	b) Protective earthing	Anbotek Anbotek	Anboro N. o.k
Alibo	c) Connections to supply	Anho tek Anhotek	Anbore P
Arribo	d) Permanently connected equipment:	Jok Aupo tek vupotek	Pupole
Vupo	1) Supply wiring requirements	bosek Aupor	N Anb
otek bup	If external switch or circuit-breaker, requirements and location recommendation	Anbotek Anbotek An	otek N I
hotek	e) ventilation requirements	botek Anbotes	And Nok
Pur Potek	f) special services (e. g. air, cooling liquid)	ok hotek Anboten	Anbo Mel
Viv.	g) Instructions relating to sound level	-k hotek Anbotek	N
5.4.4	Equipment operation	pore And botek Anbote	- Aup
Aug	Instructions for use include:	Anbores Ans otek Ant	ofer P
Joseph W.	a) identification and description of operating controls	(see user manual)	inbotek P
rek rek	b) Positioning for disconnection	Anbo tek nbotek	Anb N
Anbo.	c) Instructions for interconnection	ak Anbo. Lek h. abotek	Pbo <sub>le</sub>
Anbo.	d) Specification of intermittent operation limits	(see user manual)	PAnbo
Aupo	e) Explanations of symbols used	Anborek Anbor Ar	otek P Ar
otek An	f) Replacement of consumable materials	Auporek Aupor Ar.	N <sup>y</sup> ote <sup>N</sup>
nbotek	g) Cleaning and decontamination	anbotek Anbot	N
Anbotek	h) Listing of anypoisonous or injurious gases and quantities	No hazards gases	Anbotek Anbotek
Anbo.	i) RISK reduction procedures relating to flammable liquids (see 9.5)	No such flammable liquids provided	N <sub>upot</sub>
rek An	j) RISK reduction procedures relating burn from surfaces permitted to exceed limits of 10.1	Anbotek Anbotek Anbo	botek N
Anbotek Anbotek	Additional precautions for IEC 60950 conforming equipment in regard to moistures and liquids  A statement about protection impairment if used in a manner not specified by the manufacturer	Anbotek Anbotek	Ando'N'
5.4.5	Equipment maintenance and service	ster And stek Anbotek	+ upo.
Anto	Instructions for responsible body include:	hboter Anbo	ek Vul
ek Aug	Instructions sufficient in detail permitting safe maintenance and inspectionand continued safety:	Anboren Anb	potek P
nnbotek	Instruction against the use of detachable MAINS supply cord with inadequate rating	Anbotek Anbotek	Anbot P
anbotek.	Specific battery type of user replaceable batteries	tek anbotek anbote	Vu,b
by.	Any manufacturer specified parts	A. otek anboten	P <sub>/occ</sub>







k Anbot	IEC 61010-1	nbotek Anboten Anb	lek Aup
Clause	Requirement – Test	Result - Remark	Verdict
botek	Anbore Anbores Anbores	potek Anbor	. otek
Anbotek	Instructions include following subjects permitting safe servicing and continued safety:	Anbotek Anboten	And Potek
	a) product specificRISKSmay affect service personnel	ctek Anbotek Anbotek	P Anborek
Anbo	b) protective measures for these RISKS	nboten Anb	P Anbo
ter Vul	c) verification of the safe state after repair	Anbotek Anbo	otek P Ar
5.4.6	Integration into systems or effects resulting from special conditions	No such special conditions used	AnboteN AnboteN
Ann	Aspects described in documentation	Ans stek subotek	Pupp ok

6 And	Protection against electric shock	nboten And tek unbot	ek Aupo,
6.1	General	Anbotek Anbo. Anbo.	orek An
6.1.1	Requirements	Aupotek Aupon Fek	abotek_
Anbotek Anbotek	Protection against electric shock maintained in NORMAL CONDITION and SINGLE FAULT CONDITION	Comply with requirement	Anbořek Anbořek
Anbo	ACCESSIBLE parts not HAZARDOUS LIVE	botek Anbotes And	P <sub>nb</sub> ot
otek An	Voltage, current, charge or energy below the limits in NORMAL CONDITION and in SINGLE FAULT CONDITION between:	Anbotek Anbotek Ant	otek P Anl
nbotek	ACCESSIBLE parts and earth	anbotek Anbote	N <sub>e</sub>
Aupotek	Two ACCESSIBLE parts on same piece of the equipment within a distance of 1,8 m	ck Anbotek Anbotek	Anborek Anborek
k Aug	Conformity is checked by the determination of 6.2 and 6.3 followed by the tests of 6.4 to 6.11	otek Anbotek Anbote	P.nbo
6.1.2	Exceptions	botek Anbotet Anb	otek
inpotek	Following HAZARDOUS LIVE parts may be accessible to an OPERATOR:	Anbotek Anbotek A	Anborek.
Anbore	a) parts of lamps and lamp sockets after lamp removal	Anborek Anborek	AnWren
r Aup	b) parts to be replaced by operator only by the use of tool and warning marking	hbotek Anbotek Anbote	ek N
stek l	Those parts not hazardous live 10 s after interruption of supply	Anbotek Anbotek An	potek N A
Anbotek	Capacitance test if charge is received from internal capacitor	Anbotek Anbotek	Anborek
6.2	Determination of accessible parts	tek Aupotek Aupor	-botek
6.2.1	General	otek Anbotek Anbot	8/r "/00
Vek b	Unless obviously determination of accessible parts as specified in 6.2.2 to 6.2.4	Anbotek Anbotek Anbo	botek P An
zhen Anbo	parts as specified in 6.2.2 to 6.2.4	Ant and and An	(E125620)





N N	Prop. Napole 1	-K POLEL VILLE	2.00
Clause	Requirement – Test	Result - Remark	Verdict
botek	who were worker who we want	anboten Anbo sek	avotek.
6.2.2	Examination	potek Anbore	All Palek
An	- with jointed test finger (as specified B.2)	ok hotek Anbotek	Anb P
Anbotel	- with rigid test finger (as specified B.1) anda force of 10 N	botek Anbotek Anbotek	P <sup>lb0</sup>
6.2.3 pm	Openings above parts that are hazardous live	No openings	N Yer
potek p	- test pin with length of 100 mm and 4 mm in diameter applied	Anbotek Anbotek An	AnboreN
6.2.4	Openings for pre-set controls	Anbore K And botek	No No
Anboron	- test pin with length of 100 mm and 3mm in diameter applied	ek Anbotek Anbotek	Noot
6.3	Limit values for accessible parts	bo tek abotek Anbot	- Pu
6.3.1	Levels in normal condition	Anbor Ak botek Anh	Р
abotek A	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	hnbotek hotek
Anbotek	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	ak Anbotek Anbotek	Anbore Anbore
Aupo	Voltages are not HAZARDOUS LIVE the levels of:	otek Anbor Ar bote	-Ant
otek Anbo	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	Measure: 0.1mA r.m.s.	hotek hotek
wotek.	for wet locations measuring circuit A.4 used	k hotek Anbotek	Amed N .el
And -otek	c) Levels of capacitive charge or energy less:	Anbotek Anbotek	AN
Anbot	1) 45 µC for voltages up to 15 kV peak or d.c. or line A of Figure 3	otek Anbotek Anbotek	N.nb
rick Ant	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	Anbotek Anbotek Anb	Notek N
6.3.2	Levels in single fault condition	Anbore An Botek	Anboren P
Anbotek	a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.	Accessible enclosure voltage less than limit value	An Pries
Anbote	for wet locations voltage limits less than 16 V r.m.s. and 22,6 V peak or 35 V d.c.	hotek Anbotek Anbot	N N
ien Pup	Voltages are notHAZARDOUS LIVEthe levels of:	Anbotek Anbo. An	botek
Anbotek Anbotek	b) Current less than 0,5 mA r.m.s. for sinusoidal, 0,7 mA peak non sinusoidal or mixed frequencies or 2 mA d.c. when measured with measuring circuit A.1 or A.2 if less than 100 Hz	Measure: 0.1mA r.m.s.	Anbotek
Motel	for wet locations measuring circuit A.4 used	ok hotek Anbotek	N
bron.	c) Levels of capacitive charge or energy less:	por Any	N P

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Clause	Requirement – Test	Result - Remark	Verdict
Cladoo	Troquiemone ages	Troour Troman	port oraiot
Anbotek Ak	1) 45 μC for voltages up to 15 kV peak or d.c. or line A of Figure 3	Anbotek Anbotek	Anborek Anborek
Anbora	2) 350 mJ stored energy for voltages above 15 kV peak or d.c.	tek Anbotek Anbotek	Noore
6.4	Primary means of protection	bo lek abotek Anbo	P Ame
6.4.1	ACCESSIBLE parts prevented from being HAZARDOUS LIVE by one or more of following means:	Anbotek Anbotek An	Inbotek
Anborek	a) ENCLOSURES or PROTECTIVE BARRIERS (see 6.4.2)	ek Anbotek Anbotek	Anbotek
Anbot	b) BASIC INSULATION(see 6.4.3)	potek Anboten Anbo	P nbc
ek ant	c) Impedance (see 6.4.4)	wotek Anbotek Anbot	N N
6.4.2	Enclosures and protective barriers	Am Anbotek Anb	P
nek	- meet rigidity requirements of 8.1	And otek Anbotek	Nober N.
Anbotek	- meet requirements for BASICINSULATION, if protection is provided by insulation	ak Anbotek Anbotek	Anbotek
atek Anbore	- 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 Anbote	N Ambo
6.4.3	Basic insulation	Anbo tek nbotek	nbore P
Anbotek	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	k Anbotek Anbotek	Anbole Abotek
6.4.4	Impedance	otek anbotek Anbote	N vot
k Aup.	Impedance used as primary means of protection meets all of following requirements:	inpotek Anbotek Anbot	ick N
otek A	a) limits current or voltage to level of 6.3.2	Anbotek Anbo	botek N
inbotek hotek	b) RATED for maximum WORKINGVOLTAGE and the amount of power it will dissipate	Anbotek Anbotek	Anbo*N*
Anbotek	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of BASICINSULATION of 6.7	otek Anbotek Anbotek	Anhore
6.5	Additional means of protection in case of single fault condition	Anbotek Anbotek Anbo	ootek 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	Anbotek anbotek
Anbotek	a) PROTECTIVEBONDING(see 6.5.2)	rek Anbotek Anbo	Phote
Anbot	b) SUPPLEMENTARYINSULATION (see 6.5.3)	hotek Anbotek Anbot	P N
rek An	c) automatic disconnection of the supply (see 6.5.5)	Anbotek Anbotek Anbot	otek N
h = 4 A = h = 4	ek Compliance Laboratory Limited	, , , , , , , , , , , , , , , , , , ,	





Clause	Requirement – Test	Result - Remark	Verdict
Olduse	Treduitement Test	Troour Troman	ook Craiot
ipo,	d) current-or voltage-limiting device (see 6.5.6)	Aupo, tek upotek	Anbore.
Anborek Anborek	Alternatively one of the single means of protection is used:	tek Anbotek Anbotek	An N
Anbore	e) REINFORCED INSULATION(see 6.5.3)	Potek Aupolek Aupo,	ek N no
ek anb	f) PROTECTIVE IMPEDANCE (see 6.5.4)	hotek Anbotek Anbo	.e⊬ N
6.5.2	Protective bonding	Anbotek Anbotek An	1010 I
6.5.2.1	ACCESSIBLE conductive parts, may become HARZARDOUSLIVE in SINGLE FAULT CONDITION:	anbotek Anbotek	Anborek Anborek
Anbotel	Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or	potek Anbotek Anbotek	ar Aup.
otek Pup.	Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL	Anbotek Anbotek An	otek N A
6.5.2.2	Integrity of protective bonding	And Motek Anbotek	Mpo.
Anbotek Anbotek	a) Protective bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses	ek Anbotek Anbotek	Anborek
K Anbo	b) Soldered connections:	upotek Aupon ok Air	orek Ar
otek Ar	Independently secured against loosening	nbotek Anbote Am	wore/N
abotek	Not used for other purposes	abotek Anbote	N
botek	c) Screw connections are secured	k abotek Anbotes	And Nak
hotek.	d) Protective bonding not interrupted	lek botek Anbotes	N
k Anbot	exempted as removable partcarries MAINS SUPPLY INPUT connection	nbotek Anbotek Anbote	N <sup>ine</sup>
upotek Yu	e) Any moveable PROTECTIVE BONDING connection specifically designed, and meets 6.5.2.4	Anbotek Anbotek An	botek N
Anbotek	f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING)	Anbotek Anbotek	Aughtek
Pup.	g) If mains supply passes through:	bree Anno otek Anbotek	Aupo.
Augus	Means provided for passing protective conductor	hbotes Anboatek anbo	ek N Mul
lek Pu	Impedance meets 6.5.2.4	Anboren Anboren	potek
hotek	h) Protective conductors bare or insulated, if insulated, green-and-yellow	Anbotek Anbotek	Anbot N stek
Am	Exceptions:	k notek anbotek	Vupo.
Vus	1) earthing braids	ore And Andotek	Nipos
Pupp	2) internal protective conductors etc.	toter Ante stek subo	N Anb
Br Anb	Green/yellow not used for other purposes	hote. Pup	ovek N P







Clause	Requirement – Test	Result - Remark	Verdict
botek	Anborek Anborek Anborek	abotek Anboten Ar	- Otek
Anbotek	TERMINAL suitable for connection of a PROTECTIVE CONDUCTOR, and meets 6.5.2.3	Anbotek Anbotek	Anbotek Anbotek
6.5.2.3	Protective conductor terminal	clek Aupolan Am	Anbote
Anbore	a) Contact surfaces are metal	botek Anbores Ano	ek P <sub>anb</sub>
ek Anb	b) Appliance inlet used	botek Anbotes Anb	otek P
notek l	c) For rewireable cords and permanently connected equipment, protective conductor terminal is close to mains supply terminals	Anbotek Anbotek An	Anbote P Anbotek
Anbotek	d) If no mains supply is required, any protective conductor terminal:	blek Anbotek Anbotek	Anbotel Anbotel
anbo Anbo	Is near terminals of circuit for which protective earthing is necessary	nbotek Anbotek Anbot	K NAnbr
otek p	External if other terminals external	Ant Anbotek Ant	N
Anbotek	e) Equivalent current-carrying capacity to mains supply terminals	Anbotek Anbotek	Anborek
Anborer	f) If plug-in, makes first and breaks last	tek Anbotes Anto stek	Notek
Anboren	g) If also used for other bonding purposes, protective conductor:	nbotek Anbotek Anbote	Anbc
h. bur	Applied first	Anbore And	N A
Ole N	Secured independently	Anbore And	nbote <sup>k</sup> N
nbole	Unlikely to be removed by servicing	Anbore And Lotek	AnboN <sup>k</sup>
Anbore	h) Protective conductor of measuring circuit:	ek Anbore And orek	Notek
Anbore	Current RATING equivalent to measuring circuit TERMINAL;	botek Anbotek Anbotek	Nanbo
r Vien	2) PROTECTIVE BONDING:	Anbore An hotek Anbo	N M
No. No.	Not interrupted; or	Anbore And Motek An	oter N
hotek	i) Functional earth terminals allow independent connection	Anbotek Anbotek	Anbo'N
Anbotek	j) If a binding screw used for PROTECTIVE CONDUCTOR TERMINAL:	ostek Anbotek Anbotek	Anboh Anboh
Aupo,	Suitable size for bond wire	"potek Pupor VK Po	ek P An
ek Ant	Not smaller than 4,0mm (No. 6)	Anbotek Anbote Anti-	notek P
botek	At least 3 turns of screw engaged	upotek Vupoje, Vi	<sub>vol</sub> •P
abotek	Passes tightening torque test	Anborek Anbore	Protek
Anbotek	k) Contactpressure not capable being reduced by deformation of materials	otek Anbotek Anbotes	Anbote Anbote
6.5.2.4	Impedance of protective bonding of plug-	hotek Anbotes Anto	ek Panb







Clause	Requirement – Test	Result - Remark	Verdict
otek.	Anberek Anberek Anberek	And atek anbotek An	DO. OK
Anbotek Anbotek	Impedance between PROTECTIVE CONDUCTOR TERMINAL and each ACCESSIBLE part where PROTECTIVE BONDING is specified, is:	tek Anbotek Anbotek	Р
Anbox	less than 0,1 Ohm; or	abotek Anbo tek abot	ek Pant
ek Ant	less than 0,2 Ohm if equipment is provided with non detachable cord	Anbotek Anbotek An	otek P
6.5.2.5	Bonding impedance of PERMANENTLY CONNECTED EQUIPMENT	Anbotek Anbotek	Anbotek
6.5.2.6	Transformer protective bonding screen	lek Anbotel Anb	Noote
Anbote	Transformer provided with screen for protective bonding:	potek Anboten Anbote	K N Anto
anbotek Am	screen bonding consists of directly connected structural parts or discrete conductors or both; and withstands thermal and dynamic stresses (see6.5.2.2 a)	Anbotek Anbotek Ant	otek N Inbotek
Anbotek	screen bonding with soldered connection (see 6.5.2.2 b ) is:	ak Anbotek Anbotek	Notel
Ano	- Independently secured against loosening	bote, And otek Aubote	Namb
And	- Not used for other purposes	Anbotel And otek Anb	otek N p
6.5.3	Supplementary insulation and reinforced insulation	Anbotek Anbotek	nbote <sup>k</sup> P
Anbotek	- meet CLEARANCE, CREEPAGE DISTANCE and solid insulation requirements of 6.7	k Anbotek Anbotek	Anbotel
6.5.4	Protective impedance	cotek Anbote And	Nanb
	Limits current or voltage to level of 6.3.1 in NORMAL and to level of 6.3.2 in SINGLE FAULT CONDITION	Inbotek Anbotek Anbo	work N
Anbotek Anbotek	CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of DOUBLE or REINFORCE DINSULATION of 6.7	Anbotek Anbotek Anbotek	Anbo N
Anbotek	The protective impedance consists of one or more of the following:	stek Anbotek Anbotek	N
rek Anbu	a) appropriate single component suitable for safety and reliability for protection, it is:	hootek Anbotek Anbo	orek N M
potek	RATED twice the maximum WORKING VOLTAGE	Anbotek Anbotek An	AnboteN
Anbotek	resistor RATED for twice the power dissipation for maximum WORKING VOLTAGE	ek nbotek Anbotek	AU Night
pote	b) combination of components	tek spotek Amborok	N
ak Anb	Single electronic device not used asPROTECTIVE IMPEDANCE	apotek Aupotek Aupot	otek N AT
	No. W. A.	10° 10°	





.V	Jek Mpo, W. sek Shote.	And Hotek And	No.
Clause	Requirement – Test	Result - Remark	Verdict
100181	And Anbatek Anbor An hotek	Anborer And	nbotek.
6.5.5	Automatic disconnection of the supply	I Aupotek Aupo	N. N.
Anbotek	a) RATED to disconnect the load within time specified in Figure 2	tek Anbotek Anbore	Arri N Arribot
ek Yupor	b) RATED for the maximum load conditions of the equipment	potek Anborek Anbor	ek N <sub>An</sub> i
6.5.6	Current- or voltage-limiting device	Anbo. A. abotek An	N N
00,	Device complies with all of:	Aupo, botek	Anbore N
Anborek	a) RATED to limit the current or voltage to the level of 6.3.2	ek Anbotek Anbotek	AnbNer
abote	b) RATED for the maximum working voltage; and	tek abotek Anbore	N
ak Aup	RATED for the maximum operational current if applicable	Anbotek Anbotek Anbot	otek N <sub>bu</sub>
Anbotek Anbotek	c) CLEARANCE, CREEPAGE DISTANCE between terminations of the impedance meet requirements of SUPPLEMENTARY INSULATION of 6.7	Anbotek Anbotek Anbotek Anbotek	Anbotek
6.6	Connections to external circuits	k hotek Anbotes	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	phint parek
nbotek	- the external circuits	Anbotek Anbo	. aboP <sup>k</sup>
Anbotek	- the equipment	ek Anbotek Anbo	Potel
abotek	Protection achieved by separation of circuits; or	crek anborek Anbore	P
Anbo	short circuit of separation does not cause a HAZARD	inbotek Anbotek Anbotek	P P
tok Ar	Instructions or markings for each terminal include:	Anbotek Anbo	Motel P
botek	a) Rated conditions for terminal	Aupotek Aupo, tek	No P
Anbotek	b) Required rating of external circuit insulation	k Anbotek Anbos	Ne
6.6.2	Terminals for external circuits	stek anbotek Anbore	
ek Anbot	TERMINALS which receive a charge from an internal capacitor are not HAZARDOUS LIVE after 10 s of interrupting supply connection	hotek Anbotek Anbo	ek N
6.6.3	Circuits with terminals which are hazardous live	No such hazardous live terminals	Anbotek
Anboro	These circuits are:	Anbore Ame work	Antoren
Aupoton	Not connected to accessible conductive parts; or	tek Aupoter Aus	No
Anbore	Connected to accessible conductive parts, but are not mains circuits and have one terminal contact at earth potential	botek Anbores Anbor	ek N





Clause	Requirement – Test	Result - Remark	Verdict
potek	Aubores Augores Augores	abolek Anbor An	-otek
botek	No accessible conductive parts are hazardous live	hotek Anbote	And Nok
6.6.4	Accessible terminals for stranded conductors	ok hotek Anbotek	And
	No RISK of accidental contact because:	ak hotek Anbotek	N
K NU	Located or shielded	bore And hotek Anbor	N And
ootek An	Self-evident or marked whether or not connected to ACCESSIBLE conductive parts	Anbotek Anbotek An	otek N
hotek	ACCESSIBLE TERMINALS will not work loose	hotek Anbote	Yun Nºk
6.7	Insulation requirements	k hotek Anbotek	Aup
6.7.1	The nature of insulation	k notek Anbotek	Fupo,
6.7.1.1	Insulation between ACCESSIBLE parts or between separate circuits consist of CLEARANCES, CREEPAGE DISTANCES and solid insulation if provided as protection against a HAZARD	Anbotek Anbotek Anbotek Anbotek	otek A
6.7.1.2	Clearances	Anu otek Anbotek	Anb P
Anbotek	Required CLEARANCES reflecting factors of 6.7.1.1	notek Anbotek Anbotek	AP <sup>b</sup> ore
k Anbo	Equipment rated for operating altitude greater than 2000 m correction factor of Table 3 of 61010-1 applied	Anbotek Anbotek Anb	hotek P A
6.7.1.3	Creepage distances	abotek Anbote A	Pk.
Anbotek	Required CLEARANCES reflecting factors of 6.7.1.1	k Anbotek Anbotek	Anbotek Anbotek
	CTI material group reflected by requirements	otek Aupo, tek apotek	Panbo
Anbo	CTI test performed	upotek Aupo, by	rek P Ar
5.7.1.4	Solid insulation	nbotek Anbott An	notek N
ibotek itek	Required CLEARANCES reflectingfactors of 6.7.1.1	Anbotek Anbotek A	AnboiN-
6.7.1.5	Requirements for insulation according to type of circuit	tek Anbotek Anbotek	An <u>b</u> oto
ek Anbor	a) In 6.7.2 for mains circuits of overvoltage category II with a nominal supply voltage up to 300V	nbotek Anbotek Anbo	ek N An
ootek	b) In 6.7.3 for secondary circuits separated from the circuits in a) only by means of a transformer	Anbotek Anbotek Ar	AnboteR
Anborek	c) In K.1 for mains circuits of overvoltage category III or IV or for overvoltage category II over 300V	anbotek Anbotek	AntNiest
Anbore	d) In K.2 for secondary circuits separated from the circuits in c) only by means of a transformer	botek Anbotek Anbotek	ek Pro
anb Anb	e) In K.3 for circuits that have one or more of:	hotek Anbor An	otel N





Clause	Requirement – Test	Result - Remark	Verdict
notek	Anborek Anborek Anborek	Potek Pupotek	rek
Anbotek Anbotek	maximum TRANSIENT OVERVOLTAGE is limited to known level below the level of MAINS CIRCUIT	Anbotek Anbotek	Anborok Anborok
Anbore	maximum TRANSIENT OVERVOLTAGE     above the level of MAINS CIRCUIT	botek Anbotek Anbot	stek N
otek Put	WORKING VOLTAGE is the sum of more than one circuit or a mixed voltage	Anbotek Anbotek A	nbotek N
Anbotek	WORKING VOLTAGE includes recurring peak voltage, may include non-sinusoidal or non-periodic waveform	Anbotek Anbotek	Aupotek
Anbore	5) WORKING VOLTAGE with a frequency above 30 kHz	botek Anbotek Anbotes	rek Ant
6.7.2	Insulation for mains circuits of overvoltage II with a nominal supply voltage up to 300V	Anbotek Anbotek An	ipotek N
6.7.2.1	CLEARANCES and CREEPAGE DISTANCES	Anbo abotek	Inpose P
'upo.	Values for MAINS CIRCUITS of table 4 are met	Aupo, ak spotek	AnbP
Anborek	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	otek Anbotek Anbotek	APOPE OF
6.7.2.2	Solid insulation	be tek abotek Anbo	N
6.7.2.2.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	Anbotek Anbotek An	Pupotek N
Anbotek	Equipment passed voltage tests of 6.8.3 with values of Table 5	ek Anbotek Anbotek	Anborek
Anbore	Complies as applicable:	otek Anbore Ane	N N
Aupo	a) ENCLOSUREor PROTECTIVE BARRIER Clause8	Anbotek Anbotek Ant	ockey N
ipotek bi	b) moulded and potted parts requirements of 6.7.2.2.2	Anbotek Anbotek	Albotek N
Anbotek	c) inner layers of printed wiring boards requirements of 6.7.2.2.3	Anbotek Anbotek	Anborek Anborek
Anbo.	d) thin-film insulation requirements of 6.7.2.2.4	brek Anbo. Ak abote	K Nupo,
5.7.2.2.2	Moulded and potted parts	hbotek Anbor An	otek N Ar
ootek An	Conductors between same two layers are separated by at least 0,4 mm after moulding is completed	Anbotek Anbotek Anbotek	npotek N
6.7.2.2.3	Inner insulation layers of printed wiring boards	k Anbolek Anbo.	Nek
Anbotek	Separated by at least 0,4 mm between same two layers	crek Anborek Anbore	N Anbot
sk out	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	potek Anbotek Anb	N AN







0 <sup>k</sup>	prek pripare All satek unbaten	D. 16 D. vert of the	N/A - Pat
Clause	Requirement – Test	Result - Remark	Verdict
bote	LANGE CONTRACTOR AND	Anbore. And	anboyek.
Mhotek	a) thickness at least 0,4 mm	Anbotek Anbo	N Nek
Anbotek	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	tek Anbotek Anbotek	Anbotel Anbotel
botek Anb	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	N Am ootek A
6.7.2.2.4	Thin-film insulation	Anbore. And Lotek	AnbNek
Anbore!	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES	ootek Anbotek Anbotek	Noofek Anbo
ek Anbi	REINFORCE DINSULATION have adequate electric strength; one of following methods used:	Anbotek Anbotek An	otek N A
	a) thickness at least 0,4 mm	Anbo stek anbotek	kupore N
Anbotek Anbotek	b) insulation is assembled of min two separate layers, each RATED for test voltage of Table 5 for BASIC INSULATION	ak Anbotek Anbotek	Anbotek Anbotek
otek Anbo	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 Anbote	Nanbo
6.7.3	Insulation for secondeary circuits derived from mains circuits of overvoltage II with a nominal supply voltage up to 300V	k Anbotek Anbotek	Anbo NK
6.7.3.1	Secondary circuits where separation from MAINS CIRCUITS is achieved by a transformer providing:	otek Anbotek Anbotel	Nanbor
Pun	- REINFORCED INSULATION	inbotes And otek onb	JOH N PUL
Die An	- DOUBLE INSULATION	Anbotes Anbo	botek N
nbotek	- screen connected to the PROTECTIVE CONDUCTOR TERMINAL	Anbotek Anbotek	Ambo'N'
6.7.3.2	CLEARANCES	And solek anbotek	Anbor
Anboh Anboh	a) meet the values of Table 6 for BASIC INSULATION and SUPPLEMENTARY INSULATION; or	Obotek Anbotek Anbotek	e <sub>k</sub> Aup
ipotek bu	twice the values of Table 6 for REINFORCED INSULATION	Anbotek Anbotek Ar	potek
Anbotek	b) pass the voltage tests of 6.8 with values of Table 6; with following adjustments:	Anbotek Anbotek	Prek Anborek
Anbore	1) values forREINFORCED INSULATION are     1,6 times the values for BASIC INSULATION	tek Anbor Anborek	P <sub>pote</sub>







Clause	Requirement – Test	Result - Remark	Verdict
work.	Aupotek Yupo, W. Vpotek Vitroje	And Anbotek Ar	, oc
Anbotek Popolek	2) if operating altitude is greater than 2000 m values of CLEARANCES multiplied with factor of Table 3	Anbotek Anbotek	Anbotek Anbotek
anbote Anbote	3) minimum CLEARANCE is 0,2 mm for POLLUTION DEGREE 2 and 0,8 mm for POLLUTION DEGREE 3	botek Anbotek Anbot	ok N Anb
6.7.3.3	CREEPAGE DISTANCES	Ann otek Anbotek An	P
Anbotek	Based on WORKING VOLTAGE meets the values of Table 7 for BASIC and SUPPLEMENTARY INSULATION	Anbotek Anbotek	Anbotek
Anbore	Values for REINFORCED INSULATION are twice the values of BASIC INSULATION	potek Anbotek Anbotes	K Anbo
ek Aup	Coatings to achieve reduction to POLLUTION DEGREE I comply with requirements of Annex H	Anbotek Anbotek Ant	over N Pr
6.7.3.4	Solid insulation	Anbo sek abotek	rupose N
6.7.3.4.1	Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4	ak Anbotek Anbotek	Anbotek Anbotek
k Anbe	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 Anbote	Nanbo
abotek A	values for REINFORCED INSULATION are 1,6 times the values of BASIC INSULATION	Anborek Anborek	nbote <sup>N</sup> N
Anbotek Anbotek	b) if WORKING VOLTAGE exceeds300 V, equipment passed voltage test of 6.8.3.1 for 1 min with a test voltage of 1,5 times working voltage for BASIC or SUPPLEMENTARY INSULATION	otek Anbotek Anbotek  Anbotek Anbotek Anbotek	Anbor Anbor
otek Ar	value for REINFORCED INSULATION are twice the WORKING VOLTAGE	Anbotek Anbotek An	lootek N
upote.	Complies as applicable:	Aupotes K Potek	Anboth
Anboren	1) ENCLOSURE or protective barrier Clause 8	Anborer And	An N tek
Anboron	2) moulded and potted parts requirements of 6.7.3.4.2	Hek Anbotek Anbotek	Nabote
iek Vu	3) inner layers of printed wiring boards requirements of 6.7.3.4.3	Anbotek Anbotek Anbo	ootek N And
hotek	4) thin-film insulation requirements of 6.7.3.4.4	Anbotek Anbour	N toota
6.7.3.4.2	Moulded and potted parts	Anbotek Anbote	Nek
Anbotek	Conductors between same two layers are separated by applicable distancesof Table 8	ek Anbotek Anbotek	N N Anborel
6.7.3.4.3	Inner insulation layers of printed wiring boards	botek Pupos bis	ek Nanb







lause	Requirement – Test	Result - Remark	Verdict
otek	Anbar Anbare Armak	anbotek Anbor A	hotek.
	Separated by at least by applicable distances of Table 8 between same two layers	Anbotek Anbotek	Anbotek
Anbore	REINFORCED INSULATION have adequate electric strength; one of following methods used:	oriek Anborek Anborek	Noot
/r - /u	a) thickness at least applicable distance of Table 8	Popular Pupo,	N Pri
otek h	b) insulation is assembled of minimum two separate layers, each RATED for test voltage of Table 6 for BASIC INSULATION	Anbotek Anbotek An	Aupotek N
Anbotek	c) insulation is assembled of min two separate layers, where the combination is rated for 1,6 times the test voltage of Table 6	o'ek Anbotek Anbotek	Anbor
.7.3.4.4	Thin-film insulation	Irbote Ambot	NAM
Jek b	Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES	Anbotek Anbotek An	Anbotek Anbotek
anbotek	REINFORCED INSULATION have adequate electric strength; one of following methods used:	Anbotek Anbotek	Anb N
nbotek	a) thickness at least applicable distance of Table 8	B otek Anbotek Anbo	N
tek Anbo	b) insulation is assembled of min two separate layers, each RATEDfor test voltage of Table 6 for BASIC INSULATION	Anbotek Anbotek Anbo	orek Name
Anbotek Anbotek	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:	Anbotek Anbotek	Anborek Anborek
Anbo	a.c. test of 6.8.3.1; or	thotak Anbo tek abote	N <sub>m</sub> b
ek Anbo	d.c. test of 6.8.3.2 for circuits stressed only by d.c. voltages	Mbotek Anbotek Anb	of N
.8	Procedure for voltage tests	And otek Anbotek A	Upo.
.9	Constructional requirements for protection against electric shock	Anbotek Anbotek	Anbo'P
.9.1	If a failure could cause a HAZARD:	otek Anbotek Anbo	- 00
Anbor	a) Security of wiring connections	Lotek Anbotek Anbo	P
ak ant	b) Screws securing removable covers	Anbotek Anbotek Anbo	" <sub>N</sub> P
otek	c) Accidental loosening	Ann otek Anbotek Ar	P
Anbotek	d) CREEPAGE and CLEARANCES not reduced below the values of basic insulation by loosening	Anbotek Anbotek	Anborel
.9.2	Material not to be used for safety relevant insulation:	orek Anbotek Anbotek	N
VUPO	Easily damaged materials not used	Pulps K Po.	N P





Clause	Requirement – Test	Result - Remark	Verdict
Olause	requirement rest	Result Remark	Verdict
6.9.3	Colour coding	Aupo, W. Spotek	Anbore.
Anborek	Green-and-yellow insulation shall not be used except:	olek Anbotek Anbotek	Anboten
Anbore	a) protective earth conductors;	otek anborek Anbor	N N
ek anb	b) protective bonding conductors;	Anborek Anborek Anbo	*SK N
otek .	c) potential equilization conductors;	Anbotek Anbotek Ar	N
orek.	d) functional earth conductors	Anbotek Anbotek	N <sub>ok</sub>
6.10	Connection to mains supply source and connections between parts of equipment	olek Mipotek Aupotek	Anti-ore
6.10.1	Mains supply cords	ootek Anboiek Anbo	10k NI
k anb	Rated for maximum equipment current	hotek Anborek Anbo	New P
otek b	Cable complies with IEC 60227 or IEC 60245	Anbotek Anbotek An	, P
notek.	Heat-resistant if likely to contact hot parts	K hotek Anbotek	N.K
-otek	Temperature rating (cord and inlet)	k hotek Anbotek	Anboro N *e
Anbotek	Green-and-yellow used only for connection to protective conductor terminals	obotek Anbotek Anbotek	AP and
Anbo	Detachable cords with IEC 60320 mains connectors:	Anbotek Anbotek Ant	potek -
o. P	Conform to IEC 60799; or	Aupo. Pr. spotek	Pupote N
upor	Have the current rating of the mains connector	Anbore Ak abotek	AnboN
6.10.2	Fitting of non-detachable mains supply cords	tok Aupon ok Aug	Arbore
6.10.2.1	Cord entry	stotek Anbore An	ik Pup,
Anbo	Inlet or bushing smoothly rounded; or	abotek Anbote. Amb	over N
rek An	Insulated cord guard protruding >5D	abotek Anboten Am	woter N
6.10.2.2	Cord anchorage:	abotek Anbotes	week.
Anbotek	Protective earth conductor is the last to take the strain	tel Anbotek Anbotek	Anbotek Anbotek
Anbore	a) Cord is not clamped by direct pressure from a screw	bytek Anbotek Anbotel	h Nupo
ek ek	b) Knots are not used	Pupo, Wek apolek Wup.	N
potek hu	c) Cannot push the cord into the equipment to cause a hazard	Anborek Anborek A	nootek N
Anbotek	d) No failure of cord insulation in anchorage with metal parts	Anbotek Anbotek	N
AUDO	e) Not to be loosened without a tool	octes. Aug.	Nipo
Anboro	f) Cord replacement does not cause a HAZARD	Mosey Pupor N	NAW NAM







Clause	Requirement – Test	Result - Remark	Verdict
Oladoc	Requirement Test	Treduct Tremant	o V Craiot
,bo	Push-pull and or torque test	Anbo otek Anbotek	Anbore N. ok
6.10.3	Plugs and connectors	Anho stek Anhotek	Ambore
Anbore	Mains supply plugs, connectors etc., conform with relevant specifications	botek Anbotek Anbotek	N <sup>1</sup>
ek Ant	If equipment supplied at voltages below 6.3.2.a) or from a sole source:	Anbotek Anbotek Anb	potek N
Anbotek bo	Plugs of supply cords do not fit mains sockets above rated supply voltage	Anbotek Anbotek	Anbotek
Anborek	MAINS-type plugs used only for connection to MAINS supply	ek Anbotek Anbotek	N Anbor
anb Anb	Plug pins which receive a charge from an internal capacitor	botek Anbotek Anbotek	K NAM
otek p	Accessory MAINS socket outlets:	Ans Lotek Anbotek Anh	N
Anbotek	a) Marking if accepts a standardMAINSplug (see 5.1.3e)	Anbotek Anbotek	Anbotek
Anborel	b) Input has a protective earth conductor if outlet has EARTH TERMINAL CONTACT	ek Anbotek Anbotek	Note
6.11	Disconnection from supply source	or Am botek Anbote	-Ant
6.11.1	Disconnects all current carrying conductors	Ambore Amb	otok
6.11.2	Exceptions	Anbore K Ans	hotek_
6.11.3	Requirements according to type of equipment	Anbore And otek	Anbotek
6.11.3.1	Permanently connected equipment and multi- phase equipment	k Anborek Anborek	Note Arribote
bu.	Employs switch or circuit-breaker	or Air hotek Ambote	Nanto
stek An	If switch or circuit-breaker is not part of the equipment, documentation requires:	Inbotek Anbotek Anb	potek P
hotek	a) Switch or circuit-breaker must be included in the installation	Anbotek Anbotek A	AnboiN
Anbo.	b) Suitable location easily reached	Anbo, Ar shotek	AL N. FE.
Pupor	c) Marking as disconnecting for the equipment	stek Anbor An notek	Nipo
6.11.3.2	Single-phase cord-connected equipment	abotek Anbote And	ek - M
lek Vul	Equipment is provided with:	anbotek Anboies Anbo	otek
botek	a) Switch or circuit-breaker; or	abotek Anboron Ar	N
hotek	b) Appliance coupler (disconnectable without tool);	hotek Anbotek	N <sub>e</sub> k
Pur	c) Separable plug (without locking device)	ak hotek Anbotek	Anbo.
6.11.4	Disconnecting devices	K work anborek	PUPO
PUPO	Electrically close to the SUPPLY	Thores Aug ok hot	N Pg







	IEC 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
botek	Anbare Anna Anbares Anna	abolek Anbor Ar	-otek
6.11.4.1	Switches and circuit-breakers	anbotek Anbote	And Nek
An	When used as disconnection device:	ak hotek Anboten	AND STEK
. Air	Meets IEC 60947-1 and IEC 60947-3	ok hotek Anbotek	N
Y An-	Marked to indicate function	bore And hotek Anbor	N Anbe
ye. Yun	Not incorporated in MAINS cord	Anbore. And Lotek An	otek N A
abotek A	Does not interrupt PROTECTIVE EARTH CONDUCTOR	Anbotek Anbotek	AnboteN AnboteN
6.11.4.2	Appliance couplers and plugs	ek botek Anboten	And atek
Anbotek	Where an appliance coupler or separable plug is used as the disconnecting device (see 6.11.3.2):	botek Anbotek Anboten	K Anbo
ek Aupo	Readily identifiable and easily reached by the operator	Anbotek Anbotek Ant	otek N An
Anbotek A	Single-phase portable equipment cord length not more than 3 m	Anbotek Anbotek	inbore N
Anborek	Protective earth conductor connected first and disconnected last	ek Anbotek Anbotek	Anbotek

7	Protection against mechanical hazards	Anborek Anbo. sek anb	otek Aup
7.1 Anbotek	Equipment does not cause a mechanical HAZARD in NORMAL nor in SINGLE FAULT CONDITION	Anbotek Anbotek	nbotek_ Anbotek
Aupote.	Conformity is checked by 7.2 to 7.7	k Anbore And	Botek
7.2	Sharp edges	otek Anbotes Anb	Pnbotel
ek bi	Easily-touched parts are smooth and rounded	hotek Anboten Anbo	rek P nobs
otek	Do not cause an injury in normal use and	Potek Vupoten Vup	rek P
worek.	Do not cause an injury in single fault condition	Anbotek Anbotek A	P
7.3	Moving parts	Ant anbotek	Aupo Pak
7.3.1	HAZARDS from moving parts limited to a tolerable level with the conditions specified in 7.3.2 and 7.3.5	otek Anbotek Anbotek	Anbotek
otek bu	RISK assessment in accordance with 7.3.3 carried out	Anbotek Anbotek Anbo	ootek Ar
7.3.2	Exceptions:	anbotek Anbors Al	Note <del>l</del>
Anbotek	Access to HAZARDOUS moving parts permitted under following circumstances:	Anbotek Anbotek	Anborek Anborek
Anbo	a) obviously intended to operate on parts or materials outside of the equipment	tek Anbotek Anbotek	N/pole
clek.	inadvertent touching of moving parts minimized by equipment design (e .g. guards or handles)	Anbotek Anbotek Anbo	otek N An





Clause	Requirement – Test	Result - Remark	Verdict
wo tek	Aupotek Pupp. W. Spolek Vilhole.	Ann Anbotek An	,oo ,ek
Anbotek Anbotek	b) If operator access is unavoidable outside normal use following precautions have been taken:	rek Anbotek Anbotek	Anborek Anborek
pot	1) Access requires TOOL	tek abotek Anbotes	N
2/4 al	2) Statement about training in the instructions	hoo. Anborek Anbo	N
otek	Warning markings on covers prohibiting access by untrained operators	Anbotek Anbotek An	pore N
nbotek	or symbol 14 with full details in documentation	anbotek Anbote	Nek
7.3.3	Risk assessment for mechanical HAZARDS to body parts	ek Anbotek Anbotek	Anbo
k Anbo	RISK is reduced to a tolerable level by protective measures as specified in Table 12	botek Anbotek Anbot	NAME NAME
otek	Minimum protective measures:	Ant Anbotek Anh	N
-otek	A. Low level measures	Ann hotek Anbotek	Maribo. N
'un otek	B. Moderate measures	And otek Anbotek	Anbon N
Ann	C. Stringent measures	And otek Anbotek	N
7.3.4	Limitation of force and pressure	poter Anto tek anbote	Nan
otek Anb	Following levels are met in normal and single fault condition:	Anbotek Anbotek Anb	otek N
nbotek	Continuous contact pressure below 50 N / cm² with force below 150 N	Anbotek Anbotek	Anborek Anborek
Anbore	Temporary force below 250 N for an area at least of 3 cm² for a maximum duration of 0,75 s	K Anborek Anborek	ATINON
7.3.5	Gap limitations between moving parts	or Anbotek Anbote	N
7.3.5.1	Access normally allowed	Anbore An botek Anb	N
tootek 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	Anborek Anborek A	potek N Anbotek
7.3.5.2	Access normally prevented	stek anbotek Anbou	N
Anbo	Maximum gap as specified in Table 14 assured in NORMAL and in SINGLE FAULT CONDITION	nbotek Anbotek Anbote	N N
7.4	Stability	Anbores Anb	potek
potek	Equipment not secured to the building structure is physical stable	Anbotek Anbotek	Anbot P
Anbotek	Stability maintained after opening of drawers, etc. by automatic means, or	tek Anbotek Anbotek	N
Anboy	Warning marking requires the application of means	botek Anbotes Anbotes	× N







	IEC 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
botek	Anbore Antone Anbores Anbor	abotek Anbore Ar	-otek
Anbotek	Compliance checked by following tests as applicable:	Anbotek Anbotek	Anbotek
Anboro	a) 10° tilt test for other than handheld equipment	chek Anbore An hotek	Npote
ek Anbo	b) multi-directional force test for equipment exceeds height of 1 m and mass of 25 kg	botek Anbotek Anbot	sk N Aup
potek k.	c) downward force test for floor-standing equipment	Anbotek Anbotek An	obotek A
Anbotek	d) overload test with 4 times maximum load for castor or support that supports greatest load	Anbotek Anbotek	Anb Nek
Anborr	e) castor or support that supports greatest load removed from equipment	notek Anbotek Anbotek	Noon
7.5	Provisions for lifting and carrying	Lotek Anbotek Anbo	N N
7.5.1	Equipment more than 18 kg:	And otek anbotek Anh	N
rek	Has means for lifting or carrying; or	Anto stek Anbotek	rupo, N <sup>K</sup>
YUD.	Directions in documentation	Anb. sek anbotek	Anbon ok
7.5.2	Handles or grips	Aupor tek upotek	APON
Anbo	Handles or grips withstand four times weight	Potek Aupa tek upote	Panbo
7.5.3	Lifting devices and supporting parts	Anbotek Anbor Anbor	otek N An
otek t	Rated for maximum load; or	unbotek Anbors An	N <sup>Verote</sup>
nbotek	tested with four times maximum static load	anbotek Anbore	, <sub>oo</sub> N <sup>k</sup>
7.6 Dorek	Wall mounting	ek Anbotek Anbotes	Hotek Hotek
aborel	Mounting brackets withstand four times weight	tek anbotek Anbotes	N work
7.7	Expelled parts	tek obotek Aupore	-K - Buch
.ok	Equipment contains or limits the energy	Anbo. An abotek Anb	N
- N	Protection not removable without the aid of a tool	Anbor An work A	poten N

8 Anbor	Resistance to mechanical stresses	ak Anbo, ak abotek	Anhote
8.1	Equipment does not cause a hazard when subjected to mechanical stresses in normal use	otek Anbotek Anbotek	Pupote.
*ek	Normal protection level is 5J	Considered 5J	P
nbotek	Levels below 5 J but not less than 1 J are acceptable if all the following criteria are met	Anbotek Anbotek An	pote N
anbotek	a) lower level be justified by manufacturer	k Anbotek Anbote	Nek
Anbote	b) cannot easily be touched by unauthorzed persons or the general public	otek Anbotek Anbotek	Anborek Anborek
Anb	c) only occasional access during NORMAL USE	botek Anbote Ans	k N anbot







	IEC 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
oboten	Anbo Anbore Anti-	abotek Anbo	work
	d) IK code in accordance to IEC 62262 marked or symbol 14 used with full information in the documentation	Anbotek Anbotek	Anbotek
Anbore	For non-metallic ENCLOSURES rated below 2 °C ambient temperature value chosen for minimum rated temperature	Potek Vupotek Vupotek	N <sub>po</sub> ,
ek Aup	Impact energies between IK values, the IK code marked for nearest lower value	Anbotek Anbo botek An	potek N
	Conformity is checked by performing following tests:	Anbore Anborek	Anbotek
Aupo.	1) the static test of 8.2.1	Anbo. tek hopotek	AnbP's
Anborrotel	2) impact test of 8.2.2 with 5J except for hand- held equipment	ek Anbotek Anbotek	Anoore
ak Anb	If impact energy not selected to 5J alternate method of IEC 62262 used	port Annotek Anbot	NAMO
otek p	3) drop test of 8.3.1 or 8.3.2 except for fixed and equipment with mass over 100kg	Anti-	o. P A
Anbotek	Equipment rated with an impact rating of lk 08 by that clearly meets the criteria	Anbotek Anbote	kno N
	After the tests inspection with following results:	ak Anbotek Anbo	-potek
Anborek	- Hazardous live parts above the limits of 6.3.2 not accessible	otek Anbotek Anbote	N Anbo
K Anbo	- insulation pass the voltage tests of 6.8	botek Anbote And	N N
stek Ar	i) no leaks of corrosive and harmful substances	hotek Anbotes Ant	P
hotek	ii) Enclosure shows no cracks resulting in hazard	notek Anboter	nb P
anbotek	iii) CLEARANCES not less than their permitted values	k Anbotek Anbotek	Anborek abotek
Anborek	iv) the insulation of internal wiring remains undamaged;	otek Anbotek Anbor	P'P Anbot
Anbo	V) Protective barriers necessary for safety have not been damaged or loosened	inbotek Anbote And	otek N bu
iter An	vi) No moving parts exposed, except permitted by 7.3	Anborek Anbo hotek A	nbotek N
,boro	vii) no damage which could cause spread of fire	Anbore An notek	AnbotP*
3.2	Enclosure rigidity tests	k Anbore And borek	AN Prek
8.2.1	Static test	stek Anbore And	Panbote
Anboil	- 30N with 12mm rod to each part of enclosure	botek Anbote Anb	ek P pot
iek Aul	- in case of doubt test conducted at maximum rated ambient temperature	Anbotek Anbotes And	potek N
8.2.2	Impact test	Applied to enclosure with acceptable results	Anbotek hotek
Anbotek	Impact applied to any part of enclosure causing a hazard if damaged	ek Anbotek Anbotek	Anbotel Anbotel
Anbore	Impact energy level and corresponding IK code:	potek Anbor An	ek Panb
	NOT THE PROPERTY OF	Total Table	







Dis.	ar poter And	o, Ai,	And
	IEC 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
botok	Anbore Anbores Anbores	aborek Anbor A	-orek
Anbotek	Non-metallic enclosure cooled to minimum rated ambient temperature if below 2°C	Anbotek Anbotes	Anbotek Anbotek
8.3	Drop test	tek Aupo, Ay	N/pore.
8.3.1	Equipment other than HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	botek Anborek Anbor	ok N Anbo
er Ber	Test conducted with a drop height or angle of:	Anbor An horek An	pote N A
8.3.2	HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT	Anbotek Anbotek	Anboren P
Anbotek	Non-metallic ENCLOSURES cooled to minimum RATED ambient temperature if below 2 °C	ak Anbotek Anbotek	Anborek Anborek
poje	Drop test conducted with an height of 1 m	Lok shote And	. Р

9.1 No spread condition	of the in resumed and similar facility		
Condition	of fire in normal and single fault	Anbotek Anbotes	Anbotek
Mains supp 9.6 addition	lied equipment meets requirement of ally	tek Anborek Anborek	Notek Anbotek
	for each source of HAZARD or area of ent is checked by one of the following:	Anbotek Anbotek Anbot	PART Ant
a) Fault tes	t of 4.4; or	Anbotek Anbot An	wotekP
b) Application sources of its	on of 9.2 (eliminating or reducing the gnition); or	Anbotek Anbotek	Aupo'Nk
c) Application equipment)	on of 9.3 (containment of fire within the	otek Anbotek Anbotek	ArPorter
9.2 Eliminating within the e	or reducing the sources of ignition quipment	Anbotek Anbotek Anbo	otek Pup
a) 1) Limite	d-energy circuit (see 9.4); or	Anbotes And otek	Notek N P
2) Insulat	ion meets the requirements for BASIC ON; OR	Anborek Anborek	AnboW
Bridging the	e insulation does not cause ignition	Anbotek Anbotek	N N
b) Any igniti (see 9.5)	on HAZARD related to flammable liquids	No liquids used	N <sub>upo</sub>
c) No ignition	on in circuits designed to produce heat	botek Anbotes And	N N
9.3 Containmer should it oc	nt of the fire within the equipment, cur	Anbotek Anbotek A	Anbotek
	ng of the equipment is controlled by an held switch	rek anbotek Anbotek	AntNien
	SURE is conform with constructional ents of 9.3.1; and	hotek Anbotek Anbote	ek Pinbo
Requiremen	nts of 9.5 are met	anbotek Anbot Att	notek N Ar





- No.	Die Vi, - Paris Properties		24.2
Clause	Requirement – Test	Result - Remark	Verdict
oole.	Mus Mary Mary Mary Mary Mary	Aupole Aur	VUPOJEK.
9.3.1	Constructional requirements	Aupotek Aupo	- potek
Anbotek	a) Connectors and insulating material have flammability classification V-2 or better	Fire enclosure is made of metal and plastic flame rated V-0	Anboi
	b) Insulated wires and cables are flame retardant (VW-1 or equivalent)	Anbotek Anbotek Anbot	ootek P AT
otek p	c) ENCLOSURE meets following requirements:	Anbotek Anbo. A.	hoteP
Anbotek	1) Bottom and sides in arc of 5 ° (see Figure 13) to non-limited circuits (9.4) meets:	Anbotek Anbotek	Anb Nek
Aupo,	i) no openings; or	lek Aupo	PP <sup>bot</sup>
Vupo.	ii) perforated as specified in Table 16; or	potek Anbo	K NAM
Anbi	iii) metal screen with a mesh; or	Anbotek Anbo sek At	orek N
otek A	iv) baffles as specified in Figure 12	Anbotek Anbo	abote N
nbotek	Material of ENCLOSURE and any baffle or flame barrier is made of:	Fire enclosure is made of plastic flame rated V-0	Anbo Pok
Anbra	Metal (except magnesium); or	arek anbotek	PN O
Anbo	Non-metallic materials have flammability classification V-1 or better	Sofek Anborek Anbore	PAR
stek Ar	ENCLOSURE and any baffle or flame barrier have adequate rigidity	Anbotek Anbotek Anb	nbotekP
).4	Limited-energy circuit	Anbore Ant otek	Anbotek
Anbore.	a) Potential not more than 30 r.m.s. and 42.4 V peak, or 60 V dc	k Anbotek Anbotek	AIT Note
Vi.	b) Current limited by one of following means:	or All hotek Anbore	_DUL
Pr.	1) Inherently or by impedance;	unboil Air hotek Anbo	N
r bu	2) Over current protective device;	Aupore Aus	boten N
botek	A regulating network limits also in SINGLE FAULT CONDITION	Anborek Anborek	Anbo'N
Pr. Potek	c) Is separated by at least BASIC INSULATION	sek shotek Anbotes	And N
Aupor	Fuse or a nonadjustable electromechanical device is used	botek Anbotek Anbotek	ek b
.5 Ant	Requirements for equipment containing or using flammable liquids	No flammable liquids used	ootek N
anbotek	Flammable liquids contained in or specified for use with equipment do not cause spread of fire	Anbotek Anbotek	AnboreN abotel
Anborek	Risk is reduced to a tolerable level :	tek upotek Aupor	Pr-
Anbote	a) The temperature of surface or parts in contact with flammable liquids is 25 °C below fire point	botek Anbotek Anbotek	N
	70 70	ALL ADOL ALL	





k Anbore	IEC 61010-1	nbotek Anbotes Anb	lek Aup
Clause	Requirement – Test	Result - Remark	Verdict
botek	Auboros Anno	abotek Anbote At	-otek
	c) Flames are contained within the equipment	Anbotek Anbotek	And Nek
Arr. hotek	Detailed instructions for risk-reduction provided	ok hotek Anbotek	Amb wek
9.6	Overcurrent protection	rk Potek Aupotek	N
9.6.1	Mains supplied equipment protected	bote And Sotek Anbot	N Ambe
Potek Pun	Basic insulation between mains parts of opposite polarity provided	Anbotek Anbotek An	otek N Ar
hotek	Devices not in the protective conductor	hotek Anbote	N.k
Anbotek	Fuses or single pole circuit-breakers not fitted in neutral (multi-phase)	ek Anbotek Anbotek	Anbotek Anbotek
9.6.2	Permanently connected equipment	potek Anbore Ann	K Nambot
lek Aupo	Overcurrent device:	aborek Anbore Ant	otek N an
potek A	Fitted within the equipment; or	hotek Anbores Ant	N <sub>e</sub> N
hotek	Specified in manufacturer's instructions	Anborek Anbores	N
9.6.3	Other equipment	ok hotek Anbotek	Anbu N tek
Aur	Protection within the equipment	k hotek Anbotek	Ñ

10	Equipment temperature limits and resistance to	heat	oten - but
10.1	Surface temperature limits for protection against burns	Anbotek Anbotek	nbotek-
Anbotek	Easily touched surfaces within the limits in NORMAL and in SINGLE FAULT CONDITION:	(see appended table)	Anb P Anbotek
Aupo	- at an specified ambient temperature of 40 °C	hotek Anbors An hotel	Ninbote
otek Ar	- for equipment rated above 40 °C ambient temperature limits not exceeded raised by the difference to 40 °C	Anbotek Anbotek Anbr	lek P Anb
anbotek wotek	Heated surfaces necessary for functional reasons exceeding specified values:	Anbotek Anbotek	Anbotok Lek
Anbot	Are recognizable as such by appearance or function; or	ortek Anbotek Anbotek	AnN Anbotel
k An	Are marked with symbol 13	hotek Anbotes Anb	ek N nbo
rek	Guards are not removable without TOOL	hotek Anboten Anbo	N N
10.2	Temperatures of windings	Art. Anbotek Art	bo. k
in stek	Limits not exceeded in:	Ann otek anbotek	Aupo.
AUD	NORMAL CONDITION	Anbotek Anbotek	Anbo
VUE	SINGLE FAULT CONDITION	cher Andorek Anborek	P <sub>pote</sub>
10.3	Other temperature measurements	(see appended table)	ek P Anbo
ter.	Following measurements conducted if applicable:	Anbotek Anbo. Anbo.	otek hi





	IEC 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
bolek	Anbore Anbores Anbores	shorek Anbor A	otek.
anbotek	a) Value of 60 °C of field-wiring terminal box not exceeded	Anbotek Anbotes	Ant N
Anbotek	b) Surface of flammable liquids and parts in contact with this liquids	tek Anbotek Anbot	N Anborek
	c) Surface of non-metallic enclosures	hotek Anbore And	k P nbo
rek Anb	d) Parts made of insulating material supporting parts connected to mains supply	Anborek Anborek Anbo	potek N Ari
10.4	Conduct of temperature test	Anbotek Anbo	hoteP
10.4.1	Tests conducted under reference test conditions and manufacturer's instructions	Anbotek Anbotek	Anborek
10.4.2	Temperature measurement of heating equipment	ek Anbote And	Notek
Anbote	Tests conducted in test corner	notek Anbotes Anbo	N N N
10.4.3	Equipment intended for installation in a cabinet or wall	Anbotek Anbotek Anbot	otek N Ant
potek A	Equipment built in as specified in installation instructions	Anbotek Anbotek	Medical
10.5	Resistance to heat	Anbore. And And	Anb Pak
10.5.1	Integrity of CLEARANCE and CREEPAGE DISTANCES	ek Anbotek Anbotek	Potek Anbotek
10.5.2	Non-metallic ENCLOSURES	por An Potek Aupole	Panta
PUD.	Within 10 min after treatment:	Anbores Anb	otek P And
10.5.3	Insulating material	Anborek Aribo	nbote <sup>t</sup> P I
Anbotek	a) Parts supporting parts connected to MAINS supply	k Aupotek Aupotek	Anbo'P'
hotek	b) TERMINALS carrying a current more than 0.5 A	ok botek Anbote	A <sup>rr</sup> P otel
k koj	Examination of material data; or	ok hotek Anbote	Pub
ok bus	in case of doubt::	inport And Hotek Anb	- Pup
Oles. Vie	1) Ball pressure test; or	Vupose Viek V	nbotek P A
<sup>tupote</sup>	2) Vicat softening testof ISO 306	Anbote. Am	Anbot P

11 Anbotek	Protection against hazards from fluids	otek Anborek Anborek
11.1 Anbox	Protection to OPERATORS and surrounding area provided by EQUIPMENT	nbotek Anbotek Anbotek N Anbo
Ole Bu	All fluids specified by manufacturer considered	Anboth Ak hotek Aroote N Ar
11.2	Cleaning	Anboth Am notek Anboth
11.3	Spillage	Anbolis Anti-
11.4	Overflow	lek Anbore And Otek Noorek
11.5	Battery electrolyte	botek Anbore Ane - Anbor
rek Ant	Battery electrolyte leakage presents no hazard	botek Anbores And otek N An







Anbo	IEC 61010-1	inpoten Aupo	rek Anl
Clause	Requirement – Test	Result - Remark	Verdict
botek	Aupon Aupone Arm	abolek Anbo. A	Lotek
11.6	Specially protected equipment	Anboter Anbote	And Nek
11.7	Fluid pressure and leakage	ok hotek Anbotek	Amb
11.7.1	Maximum pressure	rk hotek Anbotek	anbo
rek Anb	Maximum pressure of any part does not exceed $P_{\text{RATED}}$	nbotek Ambotek Anbot	otek N And
11.7.2	Leakage and rupture at high pressure	abotek Anbote An	N
Anbotek	Fluid containing parts subjected to hydraulic test if:	Anbotek Anbotek	Anbolek
Anbore	a) product of pressure and volume > 200 kPal; and	ek Anbotek Anbotek	Noore
	b) pressure > 50 kPa	bu tek abotek Anbor	N Ame
potek A	Parts of refrigerating systems meets pressure- related requirements of IEC 60335-24 or IEC 60335-24	Anbotek Anbotek Ant	inbotek N
11.7.3	Leakage from low-pressure parts	Anbotek Anbotek	Aupon
11.7.4	Overpressure safety device	Aup. Tek vupotek	AUPO
Vupo,	Does not operate in NORMAL USE	potek Aupon Wek upote	Nanbo
otek Anbe	a) Connected as close as possible to parts intended to be protected	Anbotek Anbotek Anb	Hek N A
Anbotek L	b) Easy access for inspection, maintenance and repair	Anbotek Anbotek	nbo N <sub>k</sub>
Anbore	c) Adjustment only with TOOL	k Anbore And Stek	Notek
Anboren	d) No discharge towards person	otek Anboter Anti-	Nabol
k Anbot	e) No HAZARD from deposit of discharged material	hotek Anbotek Anbo	ek N
otek an	f) Adequate discharge capacity	motek Anbotek Anbo	N
nbotek	No shut-off valve between overpressure safety device and protected parts	Anbotek Anbotek A	N

12 Amboren	Protection against radiation, including laser so ultrasonic pressure	urces, and against sonic and	Anbotek
12.1	Equipment provides protection	Anbotek Anbo	ek N Pupe
12.2	Equipment producing ionizing radiation	Anbotes And otek An	ootek N A
12.2.1	Ionizing radiation	Anboter. Anb	nbot N
12.2.1.1	Equipment meets the following requirements:	Anboten Anbo	Nek
Anbotek	a) if intended to emit radiation meets requirements of 12.2.1.2; or	otek Anbotek Anbotek	N <sub>botek</sub>
tek An	tested, classified and marked in accordance to IEC 60405	potek Anbotek Anbot	otek NAnbo







-7K	Aliek Auport Alie	Pupo	b. b)
Clause	Requirement – Test	Result - Remark	Verdict
boten	And And Andrew Anbort All orek	Anboten Anb	abotek.
Anbotek	b) if only emits stray radiation meets requirements of 12.2.1.3	Anbotek Anbotek	Anborek Anborek
12.2.1.2	Equipment intended to emit radiation	otek Anbore Am hotek	Nipo
Anbor	Effective dose rate of radiation measured	abotek Anbore And	N N
	If dose rate exceeds 5 µSv/h marked with the following:	Anbotek Anbotek Anb	potek N
oo'	a) Symbol 17 (ISO 361)	Anbo, Ak abotek	Anbore N
Aupole	b) Abbreviations of the radionuclides:	Aupor Au Polsk	AUDU
Aupole	c) With maximum dose at 1 m;or	lek Auporen Aug	Noo
k Anbor	with dose rate value between 1 µSv/h and 5 µSv/h in m	potek Anborek Anbor	K N <sub>pri</sub>
12.2.1.3	Equipment not intended to emit radiation	Anbors An	N
nbotek	Limit for unintended stray radiation of 1 µSv/h at any easily reached point kept	Aupotek Vipotek	knbote N
12.2.2	Accelerated electrons	ak upotek Aupote	N
Abotel	Compartments opened only by the use of aTOOL	tek obotek Anbotes	N
12.3 Anb	Ultra-violet (UV) radiation	Conformity test under consideration	Diek Vis
otek A	No unintentional and HAZARDOUS escape of UV radiation:	Anbotek Anbotek	inpotekN
nbo	- checked by inspection; and	Anbo tek anbotek	Aupo, N
Anbo.	- evaluation ofRISKassessment documentation	Anto. rek abotek	N
12.4	Microwave radiation	cotek Anbor Anborel	- <sub>P-</sub> 7/2
Aupe	Power density does not exceed 10 W/m²:	unbotek Anbors An	Kelk N
12.5	Sonic and ultrasonic pressure	Anbotek Anbors An	botek
12.5.1	Sound level	Aupotek Aupore A	N N
anbotek	No HAZARDOUS sound emission	k anbotek Anbote	Nyel
Anbotek	Maximum sound pressure level measured and calculated for maximum sound power level as specified in ISO 3746 or ISO 9614-1	stek Anbotek Anbotek	N Anbr
lek vi	Instruction describes measures for protection	hotek Anbotek Anbo	, N
12.5.2	Ultrasonic pressure	Ambotek Anbotek Ar	N
Anbotek	Equipment not intended to emit ultrasound does not exceed limit of 110 dB between 20 kHz and 100 kHz	Anbotek Anbotek	Anbotek
Pur	Equipment intended to emit ultrasound:	K hotek Anborek	N
ek Anbo	Outside useful beam does not exceed limit of 110 dB between 20 kHz and 100 kHz	potek Anbotek Anbot	N P
	A COLOR	617	100









k Aupot	IEC 61010-1	anbotek Anbotek Anbo	tek Yupo
Clause	Requirement – Test	Result - Remark	Verdict
botek	Anbore Anbores Anbores	abotek Anbors A	-otek
hotek	If inside useful beam above values exceeded:	k hotek Anboten	Anti- Nek
Wolek Pur	Marked with Symbol 14 of Table 1	k hotek Anbotek	Ann N tok
Ann	and following information in the documentation:	ore And Anbotek	Nipos
Vup	a) dimensions of useful beam	hotel And otek Anbot	N Anbo
ter Vui	b) area where ultrasonic pressure exceed 110 dB	Anborer Anb	otek N Ar
botek	c) maximum sound pressure inside beam area	Anbotek Anbo tek	oboteŇ
12.6	Laser sources	Aupotek Aupo	Nek
anborek	Equipment meets requirements of IEC 60825-1	ek Anbotek Anbotek	Notek

13 anb	Protection against liberated gases, explosion a	nd implosion	*ek
13.1	Poisonous and injurious gases and substances	No injurious gases	N
Anbotek	No poisonous or injurious gases or substances liberated in NORMAL CONDITION	Ambotek Anbotek	kuporek
Anbores	Attached data/test reports demonstrate conformity	tak Anbotes And Otek	Not
13.2	Explosion and implosion	botek Anboter Anb	k "
13.2.1	Components	botek Anboten Anbo	ret
otek A	Components liable to explode:	Arm hotek Anbotek Anb	-rek-
-otek	Pressure release device provided; or	Anbotek Anbotek	N <sub>k</sub>
Anbotek	Apparatus incorporates OPERATOR protection (see also 7.7)	ek Anbotek Anbotek	Anbore Anbore
Anbore.	Pressure release device:	otek Anbore And	20%
Anbo	Discharge without danger	hotek Anboter Anb	N Yel
rek Ar	Cannot be obstructed	hotek Anboten Anb	N V
13.2.2	Batteries and battery charging	Anbotek Anbotek A	100
no notek	If explosion or fire hazard could occur:	Ant Lotek Anbotek	Vupo
Aug	Protection incorporated in the equipment; or	And sotek Anbotek	ANN
Anbot	Instructions specify batteries with built-in protection	hotek Anbotek Anbotek	N <sub>1/p</sub>
iek An	In case of wrong type of battery used:	hotek Anboten Anbo	16K
hotek	No HAZARD; or	An Anbotek Anbotek Ar	N
notek.	Warning by marking and within instructions	Ans hotek Anbotek	Pupo, N
Anbotek	Equipment with means to charge rechargeable batteries:	tek Anbotek Anbotek	Anbo
Anbor	Warning against the charging of non-rechargeable batteries; and	abotek Anbotes Anbot	× N







	IEC 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
work	unbon And Andrew And	abotel Anbo	-otek
	Type of rechargeable battery indicated; or	hotek Anbotek	And Nek
An	Symbol 14 used	ok hotek Anbotek	ANN TOK
Ann	Battery compartment design	rk hotek Anbotek	N
K NU	Single component failure	bore And hotek Anbor	N Anbe
ie. Vun	Polarity reversal test	Anbore. And And	otek N An
13.2.3	Implosion of cathode ray tubes	No such device used	anbotek
Anboter	If maximum face dimensions > 160 mm:	Anboten And otek	anbetek
Anboren	Intrinsically protected and correctly mounted; or	ek Anboten Anbo	Notek
Anboten	ENCLOSURE provides protection:	potek Anbotek Anbo	K N abor
ek Anbo	If non-intrinsically protected:	work Anbotek Anbo	10K - 10K
-otek ar	Screen not removable without TOOL	Ant Anbotek Ant	N
rek	If glass screen, not in contact with surface of tube	And stek anbotek	mbo N <sub>K</sub>

14 Andrews	Components and subassemblies	er And tek anbotek	AP O
14.1 Anbo	Where safety is involved, components meet relevant requirements	sorek Anbotek Anbote	P <sub>Anbone</sub>
14.2	Motors	And anbotek Anb	P8/F
14.2.1	Motor temperatures	And otek Anbotek A	Upo.
Anbotek Anbotek	Does not present a HAZARD when stopped or prevented form starting; or	K Anbotek Anbotek	Anborek
k Anboten	Protected by overtemperature or thermal protection device conform with 14.3	otek Anbotek Anbotek	N Anbotel
14.2.2	Series excitation motors	inbote Ambo	- Yup
ore An	Connected direct to device, if overspeeding causes a HAZARD	Anbotek Anbotek Ar	botek N A
14.3	Overtemperature protection devices	k botek Anbotes	Nek Nek
hotek.	Devices operating in a SINGLE FAULT CONDITION	ok hotek Anboter	ANN NEK
r Prose	a) Reliable function is ensured	ok hotek Anbotel	N
otek Ant	b) RATED to interrupt maximum current and voltage	nbotek Anbotek Anbo	ootek Anbe
botek	c) Does not operate in NORMAL USE	abotek Anbore An	N
Anbotek Anbotek	If self-resetting device used to prevent aHAZARD, protected part requires intervention before restarting	lek Anbotek Anbotek	Nek Anborek
14.4	Fuse holders	otek Anbotek Anbot	N N
de de	No access to HAZARDOUS LIVE parts	tek nbotek Anbor	N









Clause	Requirement – Test	Result - Remark	Verdict
botek	Anbores Anborok Anborok	Projek Vupose, Vi	rek
14.5	Mains voltage selecting devices	Ar. botek Anboten	Amb Nek
Wolek.	Accidental change not possible	K hotek Anbotek	AND TO
14.6	Mains transformers tested outside equipment	ie. Aug Potek Vupotek	N
14.7	Printed wiring boards	bores Anti-otek Antiot	N Anbe
potek An	Data shows conformity with V-1 of IEC 60695-11-10 or better; or	Anbotek Anbotek An	ootek N A
Anbotek	Test shows conformity with V-1 of IEC 60695-11-10 or better	Anbotek Anbotek	Anbotek Anbotek
Anbore	Not applicable for printed wiring boards with limited-energy circuits (9.4)	ek Anbotek Anbotek	Nootes
14.8	Circuits or components used as TRANSIENT OVERVOLTAGE limiting devices	Anbotek Anbotek Anbot	orek NAM
potek I	Test conducted between each pair of MAINS SUPPLY TERMINALS	Anbotek Anbotek	inbote/N
Anbotek	No HAZARD resulting from rupture or overheating of the component:	ok Anbotek Anbotek	Anb N
Anbore	- no bridging of safety relevant insulation	otek Anbotek Anbor	N nbot
k Aup,	- no heat to other parts above the self-ignition points	Anborek Anborek Anber	otek N Ani

15	Protection by interlocks	Anbore, And otek	nbotek
15.1	Interlocks are designed to remove a hazard before OPERATOR exposed	tek Anbores Anborek	Motek
15.2	Prevention of reactivating	ikote Am notek Anbotel	Nupo
15.3	Reliability	Inpose. And Andrew	rek - Anb
oter	Single fault unlikely to occur; or	Anboreck Anborek	Notek N P
nbotell	Cannot cause a HAZARD	Anbores Anbo	NodN.

16 Anbote	HAZARDS resulting from application		Pobotek
16.1	REASONABLY FORESEEABLE MISUSE	hotek Anbotek Anbo	ek N nbo
stek Ar	No hazards arising from setting not intended and not described in the instructions	Anbotek Anbotek Anbo	ootek N
hotek	Other cases of reasonable foreseeable misues addressed by risk assessment	Anbotek Anbotek	Anbot N
16.2	Ergonomic aspects	ak hotek Anbotel	An'P otek
Anboi	Factors giving rise to a HAZARD the RISK assessment is reflecting those aspects:	otek Anbotek Anbotek	P Poot
	a) Limitation of body dimensions	tek anbotek Anbo.	P P









	IEC 61010-1		
Clause	Requirement – Test	Result - Remark	Verdict
polek	Aupon Aupone Aris	abolek Anbo. A	-otek
	b) Displays and indicators	Anboter Anboter	And P
Pu. Potek	c) Accessibility and conventions of controls	ok hotek Anbotek	AMP otel
Wir.	d) Arrangements of TERMINALS	ok hotek Anboten	B <sub>/pc</sub>
Yu.	otek Anbotek Anbo ek abotek A	upote Anti-otek Anbor	ek Anb.
17 Ant	Risk assessment	Anbores And	ootek b
botek	Rish assessment conducted, if hazard might arise and not covered by claused 6 to 16	Fully covered by clauses 6 to 16	N
Anbotek	Tolerable rish achieved by iterative documented process covering the following:	ek Anbotek Anbotek	Anborek
Aupore	a) RISK analysis	potek Anbore Ane	K Nabo
ek Anb	identify HAZARDS and estimate RISKS	potek Anbores Anbo	» N
otek A	b) RISK evaluation	And hotek Anbotek Ani	N
Anbotek	plan to judge acceptability of resulting risk level based on the estimated severity and likelihood of a rish	Anbotek Anbotek	Anbotek
hotek	c) Rish reduction	ok botek Anborok	N
V NO	Initial risk reduced by counter measures:	ove And Hotek Anbore	Nambo
otek Ar	Repeated risk evalution without new risks introduced	Anbotek Anbotek Anb	hotek N An
unbotek	Risks remaining after risk assessment addressed in instruction to responsible body:	Anbotek Anbotek	Aupo Ne
Aupo	Information contained how to mitigate these rishs	Anbo tek abotek	ATNOTO
k Anbo	Following principles in methods of risk reduction applied by manufactuer in giver order:	orek Anbotek Anbotel	Nabon
iek on	1) RISKS eliminated or reduced as far as possible	rup, stek upotek Aup.	N
nbotek	Protective measures taken for risks that cannot be eliminated	Anbotek Anbotek A	N
Anbotek	User information about residual risk due to any defect of the protective measure	Anbotek Anbotek	Anblitek
VUE	Indication of particular training is required	and atek anbotek	Nupos
rek Anto	Specification of the need for personal protective equipment	nbotek Anbotek Anbo	ek N Anb
botek	Conformity checked by evaluation of the risk assessment documentation	Anbotek Anbotek Ar	N
740	VU. 3/c 3/c 50.	VIO. VID.	. 0%

1	ANNEX F	ROUTINE TESTS	Anbore	photek	Anbores	Ann	Anbotek
,eV	Anbore	Manufacturer's declaration	Anbor	bu.	k Anbotes	VUC.	k N nbot
350	ik anb	oter Anb	rek Anbore	N. Pr	otek Anboter	Anbo	· 40.









elt	Anbore	ek Anbotek	Anborek	IEC 61010-1	anbotek	Anbores	Anborek	Aupo,
CI	ause	Requirement – Test	Anboten	Anbe	Result -	Remark	k Anbot	Verdict

ANNEX H	QUALIFICATION OF CONFORMAL COATINGS FOR POLLUTION	OR PROTECTION AGAINST	Anbotek
H.1 <sub>Anboro</sub>	General	otek Anbore Ann hotek	Anbotel
Anbor	Conformal coatings meet the requirements of Clause H.2 and H.3.	botek Anbore Anbor	ek N Anbe
H.2	Technical properties	Anbo. An	oote, - V
'po,	Technical properties of conformal coatings are suitable for the intended application. In particular:	Anbotek Anbotek	Anboter.
abotek	Manufacturer indicate that it is a coating for PWBs;	ek nbotek Anbote	Notek
Anbote	RATED operating temperature include the temperature range of the indicated application;	potek Anbotek Anbote	K N Anbo
lek Aup	CTI, insulation resistance and dielectric strength are suitable for the intended application;	Anbotek Anbotek Ant	otek N Ar
Anbotek	Coating have adequate UV resistance, if it is exposed to sunlight;	Anbotek Anbotek	inpo, N
Anbotek	Flammability RATING of the coating is at least the required flammability RATING of the applied PWB.	Anbotek Anbotek	Morek
H.3	Qualification of coatings	bote And stek Anbote	-Anbo
Pup.	Coating complies with the conformity requirements.	Anbores Anb	otek N An
potek A	tek upotek Anborts And	Aupotes Aupo. Tek	obotek
ANNEX K	INSULATION REQUIREMENTS NOT COVERED BY CLAUSE 6.7	Anbotek Anbotek	Anbo <b>N</b> k
Pupp.	anbotek Anbotek Anbot	Anso tek abotek	Anbore



4.4.2 And of the	Table: Summary of single fault condtions	abotek	Aupore	Ant Lotek Panb		
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	X	otek b.	Anbotek Anbotek		
4.4.2.2	Protective impedance	×X	abotek	Anbor - Arr hotek		
4.4.2.3	Protective conductor	494	X	Anboro An		
4.4.2.4	Equipment or parts for short-term or intermittent operation	X	Anbot	k Aupone Aug		
4.4.2.5	Motors	Anbote	X Mail	o. Pr.		
4.4.2.6	Capacitors	da	X	rupous Wotek		
4.4.2.7	Mains transformers	X	botek	Aupole K - Aus		
4.4.2.8	Outputs	Х	abotek	Aupore, Pur		
4.4.2.9	Equipment for more than one supply	X	-bote	k Aupore Ann		
4.4.2.10	Cooling	Vupo.	Х	otek Anbotes An		
4.4.2.11	Heating devices	X	PL.	hotek Anbotek		
4.4.2.12	Insulation between circuits and parts	Xups	, P	hotek Anbotek		
Note:	Arthur Anboten Anbounds of both	ak Ai	hoter	Anti-otek Anbotek		

5.1.3 c)	TABLE: M	AINS supply						P
*ek	Marked rati	ng (V)	otodija Haroz		upo	See page 3	Anb'	
- ok	Number of	phases		otek	Aupo.	ek 1 aboti	ak P	
nbore	Frequency	(Hz)	Muse	Wpotek.	Vupo	45~65Hz	otek	
Aupor	Current (m/	A)	Aug.		P.O.	por ku	botek	
Aupor	1367	LON	Ant		kek.	Aupor	hotel	
Anbo	Power (VA)	Jak Jabos	Pupe.		botek	Aupor	bu.	
Test No	Voltage (V)	Frequency (Hz)	Current (A)		ver in (V)	Power in (VA)	Cor	mments
iboten	230	50	56	potek	- Anbor	-k Anu	olek .	Photek
4/2 <sup>010</sup>	400	50	78	upotek	- Anl	Jose Aug	botek	PAnbotek
Note(s):	-K Par	arborek Anborek	MUDE	hopor	ek.	Aupor	hotek	Aupole

5.3	TABLE: Durability of markings	otek P
	Marking method (see note)	Agent
1) Adhe	esive label	A Water
2) Ink p	printed Andrew Andrew	B Isopropyl alcohol 70%
3) Lase	er marked	C (specify agent)
4) Filmo	coated (plastic foil control panel)	D (specify agent)







5) Imprint	on plastic (moulded	in) Anbotek Anbo	E (spec	cify agent)	
	ere applicable inclu hich marking is fixe	de print method, label r d.	naterial, ink or pain	t type, fixing metho	d, adhesive and
	N	larking location		Marking method (s	ee above)
Anboren	- Identification (5.1	.2)	1 Ari	boten And	ek anbotek
Anbotek	- Mains supply (5.1	1.3)		Anbotek Anbo	stek subotek
Anborel	- Fuses (5.1.4)	Andrew Antrone	-K hotek	Anbotek An	oo rek nbot
ek Aupc	3/607	ctions and operating de		Anbotek hotek	Anbotek An
bode. Y	- Switches and circ	cuit-breakers (5.1.6)	abotek Anbor	k hotek	Anbotek
Anbore	- Double/reinforced	d equipment (5.1.7)	Motel Ani	pote. K hot	k Anbotek
Anbore	- Field-wiring TERI	MINAL boxes (5.1.8)	Par Notek	Anbores And	otek Anbotek
Anbore	- Warning marking	s (5.2)		Anbore. An	atek anbote
Method	d Test agen	t Remains legible Verdict	Label loose Verdict	Curled edges Verdict	Comments
otek 1 Ar	A, B	k Anbore P An	work P Anbore	₽P <sub>po</sub>	abotek
Note(s):	Vupo, ok V	otek Anbote	And stek and	otek Aupo,	k botek

6	TABLE: Protection against electric shock								P bote	
k npot	Block diagram of the system									
rek rat	Pollution of	legre	e		Anbotel	· Þ.	3	~nboł <sup>r</sup>	sk Aup	
rek h	Overvolta	ge in:	stallation c	ategory	2dyza	otek.	Hupo	JK	potek p	
Location of	1 tv/nc		Max. working	Cree	page dist	ance (no	te 3)	Clearan ce (note voltage		Comments
description	(note		voltage (note 2)	PWB	CTI	Other	CTI	3) mm	(note 2)	
L to N	BI	0,0	400Vrms	7.0	<400	Pulpo	atel-	6.5	1500	by but
L, N to met enclosure	Prince and the second s	dnodn,	400Vrms	>10	<400	ek - br	Anbotek	10	1500	lpotek W
Pri. circuit	5/2/	P	400Vrms	8.3	<400	potek.	Anbore	8.3	3000	Anbotek .
SMPS (outside)	notek wotek			Anbe	otek	Anbotek	ak Anb	abotek p	Anbotek	Anbotek
NOTE 1 – Type of insulation: BI = BASIC INSULATION DI = DOUBLE INSULATION PI = PROTECTIVE IMPEDANCE RI = Reinforced INSULATION SI = Supplementary INSULATION				IOTE 2 – Peak impu			ulse) C C C S	ATEGOR ATEGOR EGREES	hown unde	VOLTAGE LUTION r from these
Note(s): Pov	wer supply	an ap	oproved ac	lapter	rok br	porek	Anbo	ye. A	nu	Anbotek

K	6.2	TABLE: Dete	etermination of accessible parts					
	lt	em	Description	Determination method	Exception u	nder 6.2.1		









ek Anbole Anbole Anbole	Examination	The jointed test finger (see figure B.2) is applied in every possible position	otek Anbotek Anbr
Note(s):	nbotek Anbore Ar	botek Anbotek	Aupo tek upotek

6.3.1	TABLE: Levels in NORMAL CONDITION								
Item	ItemVoltage (V)Test circuit (A)Current (A)Capacitan ce10 s test, voltage (V)10 s test, capacitanc (V)						Result	Comments	
Accessible parts	<15V	Figure A.1.	0.25	A O Otek	Anbo	ok O Anbe	Pass	opotek.	
Note(s):	Anbo.	A. botek	Anbore.	VILLE	otek an	lootek Ar	po,	abotek.	

V. 1.1.	No.	-107			6777	10.	-10~			
6.3.2	TABLE: Leve	ABLE: Levels in SINGLE FAULT CONDITION								
Item	Fault condition	Voltage (V)	Test circuit	Current (A)	Capacitanc e (F)	Result	Comments			
Accessible parts	DC output short-circuit	<15V	Figure A.1.	0.28	O A	Pass	inbotek 			
Note(s):	Anbotek Anbotek Anborek Anborek Anborek Anborek									

6.5.2.4 TABLE: Impe	dance of protective bond	ing of plug-connected equ	ipment de P	
ACCESSIBLE part under t	test Test current (A)	Test current (A)  Voltage attained after 1 min (V)		
Protective conductor termi to accessible parts	inal 25	Anborek 51mΩ	Pass	
Note(s):	Anbotek Anboten	Anb otek anbotek	Aupor Ar.	

6.5.2.5	6.5.2.5 TABLE: Impedance of protective bonding of permanently connected equipment								
ACCESSIB	BLE part under test	Voltage attained (s)	Time for voltage to drop below allowable levels(s)	Result					
Anbore	Aris potek Ari	boten and	nbotek Anbote	Ann botek Anbotek					
Note(s):	Ann	Anborek Anbo	abotek Anbote	k wotek Anbotek					

6.7	TABLE: Insulation requirements								
8	Resistance to mechanical stresses								
10.5.1	Integrity of CLEARA	NCES and CREEPAGE DIS	TANCES	otek Anbotek	Nok Nok				
.,-	Location	initial CREEPAGE DISTANCE (mm)	Initial CLEARANCE (mm)	Maximum working voltage (V)	Comments				
PUPP	tek- nbotek	Anbore - An hotel	Arboter	Aug Tek	abotek Anb				
Note(s):	ipo. K Polek	Anbores Am	ek abotek	Aupo,	rotek L				







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N	Mechanical tests, force (N)	Static	Dynamic	Drop test, normal	Drop test, hand- held	Comments	
d	ek Anbo	abotek P	upore - Arr	otek -Anbotek	Anbo	obotek Ar	
J	Note(s):	nbotek	Anbore And	hotek Anbore	Anbo	h. abotek	

Mupo.	h.,	ak abore	V. P.	yer and	Yan	abore
6.8	TABLE:	Dielectric strength	tests for protection	n against the spre	ead of fire	Potel
Loca	tion	Working voltage (V)	Test voltage (V)	Result	Comme	ents
L to	N	400V	1500	Ambore P Ar	Voltage test (see	e 6.8)
L to	N Nek	400V	1500	AntPier	Static test (see 8	3.1.1)
L, N to ac		400Vrms	3000	ek Pootek	Voltage test (see	e 6.8)
L, N to ac		400Vrms	3000	hore P Anbot	Static test (see 8	3.1.1) hobb
Pri. circui circuit of		400Vrms	3000	Anbote P An	Voltage test (see	e 6.8)
Pri. circui		400Vrms	3000	Anb P Anbotek	Static test (see 8	3.1.1)

6.10.2	.10.2 TABLE: Cord anchorage tests									
Lo	ocation	Mass kg	Pull N	Verdict	Torque Nm	Verdict	Comments			
otek.	nbotek A	100,	Pr.	- Anbo	te. Tup	sk -nbotek	Aupo,			
Note(s): No	cord provided	Anbore	b1,.	otek Al	hoten And	otek Anbotel	Anbor			

8	TABLE: Resistance to mechanical stresses								
Llocation	on	Static	Dynamic	Drop test, normal	Drop test, hand-held	Result	C	Comments	
Enclosu	ile , e	Mupo.	Pass	Alebore.	An-	Pass	P,	upo	

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/m<sup>3</sup>.

9	TABLE: Protection against the spread of fire								
Item	·			a of the equipment ponent, liquid etc.)	Protection method (9a, 9b, 9c)	Protection details	Comments		
Plastic pa	rts	h. abotek	Anbore.	And	Arrootek 9a Anbi	sek - nbo	lek -Aupote		
Note(s):	Yo.	abotek.	Anbore.	Ans	Anbotek A	upo. b.	abotek Anbot		







9.3.1	TABLE: Containment of fire within the equipmen	nt	N Yek N
14.7	Printed wiring boards	An hotek Anboten An	N
hotek	Material tested	Anbotek Anbotek	
Ans	Generic name	Anbotek Anbotek	
VUr.	Material manufacturer	k And Anbotek	
V Ann	Type designation	bote And Anbot	
b.	Colour	Anbore, And	
oter	Conditioning details	Anbotel And otek	
Aupoten	Thickness (mm):	1 - Anboter Ant hotek	
	ek Anbotek Anbotek Anbo	3- Anborek Anborek	
K Bu.	Duration of flaming after first application (s)	90- An hotek Anbote	
	Anbotek Anbotek Anbotek Anbotek	2. Dorek Anbotek Ant	
'upotek	Duration of flaming plus glowing after second application (s)	1 - Anbotek Anbotek	
	Anbotek Anbotek Anbot	3 - Anbor Anborek	
Aupo	Specimen burns to holding clamp (Yes/No):	11th Anbourtek Anbotel	
	Anhotek Anbotek Anbotek Anbotek	3 - And	
hotek	Cotton ignited (Yes/No)	1 - Anborek Anborek	
	Anbotek Anbotek Anbotek Anbotek	3 - Anborek	
Note(s):	And rek anbotek Anbot	otek Anbore, Ans	abote

9.4	TABLE: Limited-energy circuit							
hotek	current (A); 4 -		(VA); 4 – overl	r.m.s./dc.(V); 3 – oad protection afte nments		Anbotek Anbotek		
1	2	3	4	5	6	7		
VUD.	-k hotek	Anbo A	-+e\+-	"pote, bur	- V	lek -Aupo.		
Note(s):	And Lotek	anbotek	Anbo	abotek Ar	pose. And	-otek ant		

9.5	TABLE: Re	TABLE: Requirements for equipment containing or using flammable liquids						
Anbotek		: 1 –Type of liqu tainment); 4 – co		iquids (b. quant	tity); 3 – flammable	Anbotel		
1		2		3		4		
2000	7711	ek - abote	AUD	-otek	Pupose Vi	rek		







10	TABLE: T	emperature	measurements				otok P		
10.1	Surface te	mperature lin	nits – NORMAL CON	DITION and	/ or sign	LE FAULT CONDITION	ı Maria		
10.2	Temperati	ure of winding	gs- NORMAL CONDIT	ION and /	or SIGNLE	FAULT CONDITION	Anbe. Nek		
10.3	Other tem	perature mea	surements	Anboren	Pur	otek Anbotel	Amber		
Operating	conditions:	Normal work	ing	Anbo	le <sub>p</sub>	Jupo otek Vupo	stek		
Pupo	Frequency	/ (Hz)	DOSE AND	6k P1	50	Anbo	nboti		
P.U.P.	Duration (h	requency (Hz): 50  uration (h, min): 1 hour 50 min							
polek l	Voltage (V	")	Aupores. No	wetek :	AC230 \	/ Anbo			
Anbotek	Voltage (V)       AC230 V         Ambient temperature Ta (°C)       40°C								
Anbotel	Measurements: 1 – part/location; 2 – measured temperature Tm ( $^{\circ}$ C); 3 – corrected maximum temperature Tm + 40 $^{\circ}$ C – Ta ( $^{\circ}$ C); 4 – maximum allowed temperature ( $^{\circ}$ C); 5 – result; 6 – comments								
1		2	3	4	1	5	6		
AC input te	erminal	49.4	Anbote. An	totel 70	Anbote	Anbo.	Vuporok		
Internal wir	e Anbotek	48.5	Anborek	105	anbi	notek P Anbotek	Alipotek rek		
Power swit	ch Anbole	52.3	otek Anbotek	Ref	Otek b	AnbotekP Anbot	ek _Anbo		
Terminal bl	lack	54.2	Mbotek Anbote	Ref	nbotek .	Anbotek An	oo. Ar		
Enclosure i	internal	50.3	Anboten Anb	Ref	Anbotek	Anborek Me morek	Anbolek		
Enclosure	outside	51.2	Anbo hotek	Ref	. Anbo	P Anbotek	Aritorek Antorek		
Switch	Anbotel	47.3	stek Anbotek	Ref	Vek V	Anbotek P Anbok	ak pot		
Ambient	ek Anbr	40.0	nbotek Anbote	ek And	nbotek	Anbolek Aut	potek An		
Note(s):	pore A	u.	anbotek Anb	- N-	hotek	Anbore	Andrek		

10.2	TABLE: Temperature of resistance method temperature measurements	Nek Nek
4.4.2.7	Mains Transformers	And N otek
14.2.1	Motor temperatures	N
Operating of	conditions:	
's bu	Frequency (Hz):	
DOLO.	Duration (h, min) hour min	
Anbore	Voltage (V) N	
Anbore	Ambient temperature Ta <sub>1</sub> /Ta <sub>2</sub> (°C)	
ek ab	Measurements: 1 – part/designation; 2 – $R_{cold}$ $\Omega$ ; 3 – $R_{warm}$ $\Omega$ ; 4 – Tr (K); 5 – $T_c$ (°C); 6 – $T_{max}$ (°C); 7 – result; 8 – comments	k Anbot







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Ą	1	2	3	4	5	6	7	8
ore	- Anbote	- Vun	otek ant	losek Yul	20. PSK	botek A	Pole V	he citel-

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 enclo	osures	otek P
otek Ar	Test method used:	Anbotek Anbo.	See below	
hotek	Non operative treatmen	ıt	[V] hotek Ambores	Pur Bek
hotek	Empty ENCLOSURE	Wholek Vupous	[1]	And P rel
Arr Potek	Operative treatment	John Joseph Aribo	[ ] And hotek Anbotek	VUDO
	Part	Test temperature (°C)	Duration (h, min)	Verdict
V. View	Enclosure	125 potek	Anbore Anh	oten P
No. Vu	Dielectric strength test	(6.8)	500 V r.m.s./peak/d.c	inpotek P
Note(s): No	hazardous live parts shal	l be accessible	Anbotek Anbotek	Anbotek
10.5.3	TABLE: Insulating mater	rials		PPOTO
10.5.3a)	Ball pressure test	Ans Lotek An	botek Anbo tek abotel	Panbe
Anbo.	Max. allowed impressio	n diameter	2 mm	yek A
	Part	Test temperature (°C)	Impression Diameter (mm)	Verdict
botek	Terminal	Anbotes 125 Anbotes	nbotek 1.3 Anbote	, boby
abotek	PCB	125 Ann	1.2 Anborek	Ar. Potek
aborek	Anbore K And	tek Anbotek Anbo	rek abotek Anboto	Vu.
Note(s): No	hazardous live parts shal	l be accessible	otek Anbotek Anbote	P.U.
10.5.3	TABLE: Insulating mater	rials	100	N
10.5.3b)	Vicat softening test (ISC	O 306)	And otek anbotek Ar	N
Later L	Part	Vicat temperature (°C)	Thickness of sample (mm)	Verdict
And	apotek Anbor	K Polek Vupoje	And tek anbotek	Anbor
Note(s):	k abotek Anbot	K wotek Anb	otek Ando tek abotek	Aupor.

11	TABLE: Protection against hazards from fluids							
anbotek bo					pillage; 4 – ov age (V); 8 – r			Anbotek
1	2	3	4	5	6	7	8	9
200	otek ->upo.	- br	ootek	upole.	Ann alek	VUP-Jek	Pupo.	// //
Note(s):	lote(s): No such fluid used.							N. D.







	V	07,	100	70-	N/	O. D. D. L.
11.7.2	TABLE: Leakag	ge and rupture a	t high pressure	•		otek N
Part	Maximum permissible working pressure (Mpa)	Test pressure (Mpa)	Leakage test Yes / No	Burst test Yes / No	Commo	ents
Anbore.	Ant otek	Aupatek	Aupo A.	shorek Ar	ote And	tek - anb
Note(s):	oter And	anbotek	Anbor	Anabotek	Anbores And	-otek b
11.7.3	TABLE: Leakag	ge from low-pres	sure parts			N
hotek	Measurements:	1 - ; 2 – (Pa); 3 –	; 4 - Maria	ok hotek	Anboren	Auga
	Part	Test press	ure Leal	kage (Yes/No)	Comm	ents
Vu. Potek	Aupotek	Yupo rek	abotek An	Pole William	otek Anbotek	Anbo
Note(s):	ii atek	Vupo.	Par Lak	PUS VUS	V	lek Vupo

12.2.1	TABLE: Ioniz	ing radiation					nbotek	
Lo	ocation	Measured \	/alues μSv/h	Verdi	ct	Con	nments	
Anboten	- Anbe	abotek	- Anbor	Motek	Anboten	And	nbotek	
Note(s):	Anbo	abotek	Anbore	Y Pur	Anbotek	Vupo	tek vapote	
12.5.1	TABLE: Sour	d level meas	surements				Jek N J	
	Location		Measured	values dBA	Calc	alculated maximum sound pressure level		
'upole	Aug Polek	Anborek	Anbo	- nbotek A	upoje	Ans hotelt	Anbotek	
Note(s):	Ann	Anborek	Anbo.	h. abotek	Anbore.	Ann	Anbotek	
12.5.2	TABLE: Ultra	sonic pressu	ıre measuren	nents			Nabote	
Lo	Location			ues		Comment	ts	
		dB		kHz				
hotek	Arboten An	stek -	nbotek	rupo,	notek	Anboren	And	
Note(s):	anbotek	Aupo	abotek	Aupolo A	"otek	Anbotek	Anbo	

13.2.2	TABLE: Batteries tests	Nupo
Ann	Battery load and charging circuit diagram	
ien Pi	Battery type	
poter	Battery manufacturer	
Anbotek	Battery model	
Anbotek	Battery catalogue No.	
Anbot	Battery ratings	
ak an'	Reverse polarity instalment test	N N

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Single component failures					Verdict			
Component			Open	circuit, result		Short circuit, result		
botek	Anbore.	Aug Otek	- Anborek	Aupo.	abolek.	Anbore.	Ann Otek	
Note(s):	Anborer	Andrew	nbotek	Anbore	hotek.	Aupoter	And	

1000	VIL	atek.	anbo	h who how	Arr.	Note:
14.1	TABL	E: Components			otek Anbote	Puppe
Object/part	No.	Manufac- turer/trademark	Type/model	Technical data	Standard	Mark(s) of conformity
PCB	Anbore	SHENZHEN WUZHU TECH CO LTD	WZ-6M	V-0, 130°C	UL 796	UL E170968
Plastic encl	osure	SABIC JAPAN L L C	940(f1)	V-0, min. 120°C, min. thinkness 2.0 mm.	UL 94, UL746	UL E207780
Internal w	vire <sup>*</sup>	SHENZHEN WORLDFUL HARDWARE ELECTRIC CO LTD	nek 13135 Ant	600V, 20AWG, 200°C, VW-1	UL 758	UL E317806
Note(s):	Anb	ter And	abotek	Anbo. K Ambotel	Anbotes	And

14.3	TABLE: Over	rtemperature protection de	vices	Nanbe
Reliability te	est:			
Com	ponent	Type(see note)	Verdict	Comments
upore	Aur Otek	Anbotek Anbo	- Anbore	Ant - Anbotek
Note(s):	And	Anbotek Anbo.	hotek Anbote	And otek Anbotek
NSR = non-self-resetting (10 times)				
NR = non-re	esetting (1 time	) Ann tek inbotel		
SR = self-re	setting (200 tin	nes)		

14.6	TABLE: Mains transformers tested outside equi	pment	N on
Anbotek	Type:	k Anbotek Anb.	work.
Aupole	Manufacturer	otek Anbotes A	nb botek
arbo	Temperature protection class of the lowest RATED winding (class or maximum RATED temperature) :	nbotek Anbotek	Aupo,
-tel	Winding identification:	Anb stek Anbotek	P.C.
-otek	Type of protector for winding:	Anbo sofek Anbo	le <sub>K</sub>
		Short circuit	Over load
Pur	Elapsed time:	1s	Anbotek 1s Anbo
VUD	Current, primary (A)	toker And otek	Anbotek Anbr
PL	Current, secondary (A):	Anbores Anb	Astek A

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	Winding temperature, primary (°C)	abotek Anbore	Ant Lotel Anbi
ek Ant	Winding temperature, secondary (°C)	abotek Anbote	And totak
ootek	Tissue paper/cheesecloth test	Anborek Anborr	And otek
Lotek	Voltage test	Pur Polak Vul	oter And

**Product Safety** 





Clause

Attachment 1: EU difference

VI.	-181	- nbo	No.	201	
10_1L ATTA	CHMENT	hotek	Anbore	K Vun	
hotek	Result	- Remark	, upoh	Verdict	

#### ATTACHMENT TO TEST REPORT

## IEC 61010-1:2010/AMD1:2016

EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES
(Electrical Equipment For Measurement, Control, and Laboratory Use; Part1: General Requirements)

Differences according to .....: EN 61010-1:2010/A1

Requirement + Test

IEC6101

Attachment Originator.....: TÜV Rheinland LGA Products GmbH

Master Attachment.....: Date 2019-12-05

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	CENELEC COMMON MODIFICATIONS (EN)	ibe sportek Aupon Air
Po- N	Procedure for voltage tests	Anboy Anboles
6.8.3.1 Anborek	The a.c. voltage test Replace the first sentence by the following sentence: The voltage tester shall be capable of maintaining the test voltage throughout the test within +/- 5 % of the specified value.	Anbotek Anbotek Anbotek  Anbotek Anbotek Anbotek  Anbotek Anbotek Anbotek
	ok Anbors An Notek Anboren An	tek abotek Anbot
Annex ZA (normative)	The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.	Anbotek Anbotek Anbotek Anbotek  Anbotek Anbotek Anbotek  Anbotek Anbotek Anbotek  Anbotek Anbotek
	k Anborek Anb	Anbotek Anbotek Anb
Annex ZZ (informative)	Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered	Anbotek Anbotek Anbotek

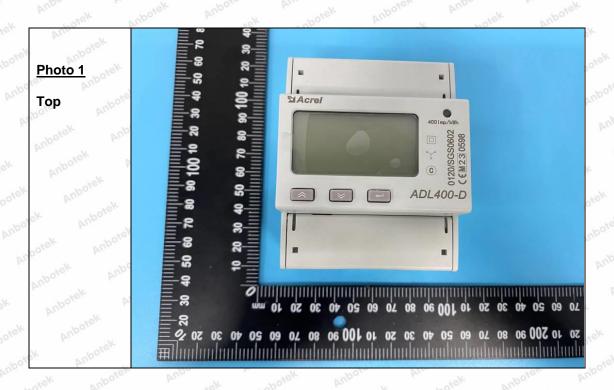


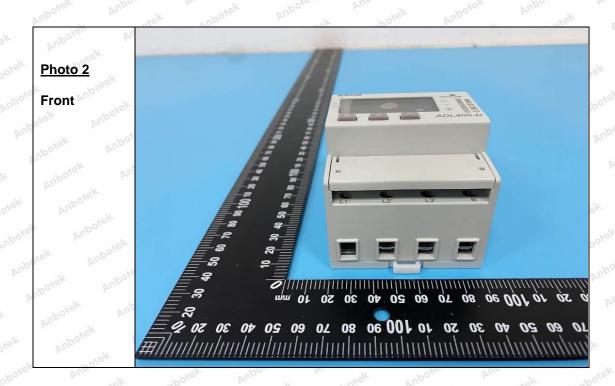






#### **Attachment 2: Photo documentation**

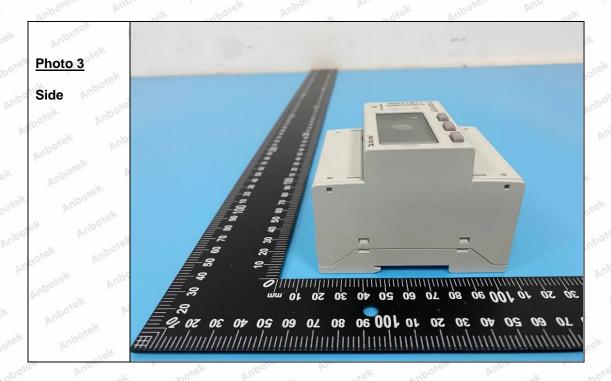
















Hotline

400-003-0500







# Photo 6

Internal









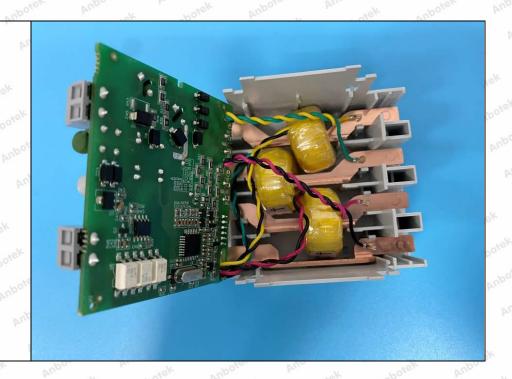
Report No. 18250SC30009301







Photo 8
Internal



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

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