

Report No.: 18250SC10016701

# **Test Report**

Client Name : Acrel Co., Ltd.

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

Product Name : ADW

Date : Apr. 09, 2021



# Shenzhen Anbotek Compliance Laboratory Limited

#### Shenzhen Anbotek Compliance Laboratory Limited





## TEST REPORT

#### EN 61010-1

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

| Report reference No:                              | 18250SC10016701  |
|---|--|
| Compiled by:                                      | Sanko Chen<br>Jeff Zhu   |
| Approved by:                                      | Jeff Zhu Joff Zhu  |
| Date of issue:                                    | Apr. 09, 2021  |
| Contents:   | 51 pages   |
| Testing laboratory                                | Shenzhen Anbotek Compliance Laboratory Limited   |
| Address:  | 1/F, Building D, Sogood Science and Technology Park, Sanwei  |
| untek anborek Anbor P                             | community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong,   |
| be tek subotek Anbore                             | China.518128   |
| Testing location:                                 | Same as above  |
| Applicant   | Acrel Co., Ltd.  |
| Address:  | No.253, Yulv Road, Jiading District, Shanghai, China   |
| Test specification                                | nboter Anotek Anbotek Anbotek Anbotek Anboter  |
| Standard:   |  |
| Test procedure:                                   | LVD test report  |
| Type of test object                               | hotek Anboten Ano tek nootek Anbor At  |
| Description                                       | ADW  |
| Trademark:  | Acrel  |
| Model/type reference:<br>Manufacturer:<br>Address | ADW300, ADW300W, ADW210-D10-1S, ADW210-D10-2S,<br>ADW210-D10-3S, ADW210-D10-4S, ADW210-D16-1S, ADW210-D16-2S,<br>ADW210-D16-3S, ADW210-D16-4S, ADW210-D24-1S, ADW210-D24-2S,<br>ADW210-D24-3S, ADW210-D24-4S, ADW210-D36-1S, ADW210-D36-2S,<br>ADW200-D10-3S, ADW200-D10-4S, ADW200-D10-1S, ADW200-D10-2S,<br>ADW200-D16-3S, ADW200-D16-4S, ADW200-D24-1S, ADW200-D16-2S,<br>ADW200-D24-3S, ADW200-D24-4S, ADW200-D36-1S, ADW200-D36-2S,<br>ADW200-D36-3S, ADW200-D36-4S, ADW220-D10-1S, ADW200-D36-2S,<br>ADW200-D36-3S, ADW200-D36-4S, ADW220-D10-1S, ADW220-D10-2S,<br>ADW220-D10-3S, ADW220-D10-4S, ADW220-D10-1S, ADW220-D10-2S,<br>ADW220-D16-3S, ADW220-D10-4S, ADW220-D16-1S, ADW220-D16-2S,<br>ADW220-D16-3S, ADW220-D16-4S, ADW220-D16-1S, ADW220-D16-2S,<br>ADW220-D24-3S, ADW220-D24-4S, ADW220-D36-1S, ADW220-D36-2S,<br>ADW220-D36-3S, ADW220-D24-4S, ADW220-D36-1S, ADW220-D36-2S,<br>ADW220-D36-3S, ADW220-D36-4S<br>Jiangsu Acrel Electrical Manufacturing. Co., Ltd.<br>No.5, Dongmeng Road, Nanzha Street, Jiangyin City Jiangsu Province,<br>China<br>Same as manufacturer |
| Address   | Same as manufacturer   |
| Rating:   | Power: AC/DC 85-265V   |
| botek Anbote Anv                                  | Measuring Voltage input:3x230/400V; 3x57.7/100V; 3x380/660V;   |
| otek suboten Anbu                                 | Measuring Current input: 3x5(6)A; 3x20(100)A; 3x80(400)A; 3x120(600)A  |

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Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. Tel:(86) 755–26066440 Fax: (86) 755–26014772 Email: service@anbotek.com

# Anbotek Product Safety

| Test item particulars  |                                    |
|--|------------------------------------|
| Pollution degree   | In hotek Anbotek Anbor tek subotek |
| Protection degree  | Class II equipment                 |
| Operating conditions:  | Continuous operation               |
| Connection to supply mains:  | None                               |
| Special protection to IEC 60529:   | IP20                               |
| Possible test case verdicts  | nboten Anbotek Anbotek Anbotek     |
| - test case does not apply to the test object:   | N (N.A.)                           |
| - test object does meet the requirement:   | P (Pass)                           |
| - test object does not meet the requirement:   | F (Fail)                           |
| Testing  | tek Anbotek Anbo                   |
| Date of receipt of test item:  | Mar. 25, 2021                      |
| Date(s) of performance of test:  | Mar. 25, 2021 to Apr. 07, 2021     |
| with the start with the start of the start o |                                    |

#### General remarks

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

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

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

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

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According to the EU directives which have been aligned with EU NLF (new legislative framework), both of

manufacturer and importer's name and address shall be affixed on the product or, where that is not

possible, on its packaging or in a document accompanying the product before the product is placed on the EU market.

Notes: All models are same except for model name.

## Copy of marking plate

ADW Model No: ADW210 Power: AC/DC 85-265V Voltage input:3x230/400V Current input: 3x100A

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

Importer: XXX Address: XXX

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Anbotek Product Safety

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| Clause       | Requirement – Test  | Result - Remark         | Verdict              |
|--------------|---|-------------------------|----------------------|
| Anbore       | hotelt Anboles Anbr the subolt                              | ek Anborto Ano hotek    | Anbotek              |
| 4.4 Min 1010 | TESTING IN SINGLE FAULT CONDITION                           | otek Anboro An-         | P                    |
| 4.4.1        | Fault tests   | abotek Anbote, And      | P                    |
| 4.4.2        | Application of fault conditions                             | And Anbotek Anboten And | Р                    |
| 4.4.2.1      | Single fault conditions not covered by 4.4.2.1 to 4.4.2.12  | Anbotek Anbotek A       | Nupoter-             |
| 4.4.2.2      | Protective impedance  | Anbote, Ant otek        | N                    |
| 4.4.2.3      | Protective conductor  | otek Anboten Anbo       | Nibot                |
| 4.4.2.4      | Equipment or parts for short-term or intermittent operation | hbotek Anbotek Anbo     | ox N an              |
| 4.4.2.5      | Motors  | Anbors Ans wotek An     | po <sup>ser</sup> N  |
| 4.4.2.6      | Capacitors  | Anbote, Anountek        | anbot N              |
| 4.4.2.7      | Mains transformers  | Anbotek Anbo            | Per                  |
| 4.4.2.7.2    | Short circuit   | otek Anboten And stek   | Noot                 |
| 4.4.2.7.3    | Overload  | notek Anboter Ano       | N N                  |
| 4.4.2.8      | Outputs   | hotek Anboten Antro     | P                    |
| 4.4.2.9      | Equipment for more than one supply                          | Ann hotek Anbotek An    | Р                    |
| 4.4.2.10     | Cooling   | Ant Lotek Anboten       | N N                  |
| 4.4.2.11     | Heating devices   | k sotek anbotek         | Anton N              |
| 4.4.2.12     | Insulation between circuits and parts                       | k kotek Anbotek         | P                    |
| 4.4.2.13     | Interlocks  | poter Ante otek onbote  | < NAUD               |
| 4.4.2.14     | Voltage selectors   | Anboten And niek and    | N P                  |
| 4.4.3        | Duration of tests   | Anboten And             | nbote <sup>K</sup> P |
| 4.4.4        | Conformity after application of fault conditions            | Anboten Anbo            | - PK                 |
| Anbotek      | Antoo tek obotek Antoot Att                                 | ek Anboten Anbo         | nbotel               |
| 5 Anbotek    | Marking and documentation                                   | Lotek Anbotek Anbo      | P                    |
| 5.1.1        | General   | wotek Anbotek Anbo      | Р                    |
| stek of      | Required equipment markings are:                            | und untek anbotek Anb   | - walt               |
| otek         | Visible:  | And otek Anbotek A      | P                    |
| noverek      | From the exterior; or                                       | Ante stek onbotek       | Anbo P               |
| Anbo         | After removing a cover; or                                  | en photok photok        | Ň                    |
| Aupor        | Opening a door  | opten Andrew tek abotek | Ņabo                 |
| Anbo         | After removal from a rack or panel                          | Inbotek Anbo pek abo    | <sup>еж</sup> N рб   |
| rek An       | Not put on parts which can be removed by an operator        | Anborek Anborek A       | loote <sup>k</sup> N |
| 100          | Letter symbols (IEC 60027) used                             | Artist                  | Anboter P L          |

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|-----------|--|------------------------|-----------------------|
| Anbore    | housek anborek Anbor as anot   | anbolie Ant hotek      | Anbotek               |
| Anboten   | Graphic symbols (IEC 61010-1: Table 1) used                                  | otek Anbote. Anv Lotek | P                     |
| 5.1.2     | Identification   | abotek anboten Anbo    | Ko                    |
| telt pr   | Equipment is identified by:  | to botek poboten pro   | Р                     |
| Natek     | a) Manufacturer's or supplier's name or trademark                            | Ant notek Anbotek Al   | P                     |
| no otek   | b) Model number, name or other means   | Ann otek Anbotek       | Anbo P                |
| Anburgtek | Manufacturing location identified  | And ntek Anbotek       | MP                    |
| 5.1.3     | Mains supply   | oter Andratek Anbotek  | Hopon                 |
| Puppo     | Equipment is marked as follows:  | nboten Anbo riek nabo  | ok Ant                |
| er pol    | a) Nature of supply:   | Anboten Anbo tek       | potek                 |
| potek     | 1) a.c. rated mains frequency or range of frequencies                        | Anborek Anborek        | AnbottP               |
| Anu       | 2) d.c. mark with symbol 1 of Table 1  | And wotek Anbotek      | Р                     |
| Anu       | b) Rated supply voltage(s) or range  | ter Anu otek Anbotek   | Ploor                 |
| Ano       | c) Max. rated power (W or VA) or input current                               | boten And stek mbot    | P Anb                 |
| otek I    | The marked value not less than 90 % of the maximum value                     | Anbotek Anbotek An     | ote <sup>k</sup> N P  |
| hotek     | If more than one voltage range:  | An hotek Anboten       | N Nex                 |
|           | Separate values marked; or   | k hotek Anboten        | Anbo                  |
| Anthote   | Values differ by less than 20%   | Ant hotek Anbotek      | N                     |
| Ann       | d) Operator-set for different rated supply voltages:                         | poter Anti-            | Aup                   |
| Anu       | Indicates the equipment set voltage  | Anbote, And And        | otek N P              |
| oter P    | Portable equipment indication is visible from the exterior                   | Anbotek Anbotek        | nbote <sup>K</sup> N  |
| hotek     | Changing the setting changes the indication                                  | k hotek Anboten        | And                   |
| Anbotek   | e) Accessory Mains socket-outlets accepting standard MAINS plugs are marked: | otek Anbolek Anbolek   | A <u>nb</u> o<br>Anbo |
| k propo   | With the voltage if it is different from the mains supply voltage            | Anbotek Anbotek Anb    | re <sup>k</sup> N pr  |
| - CK      | For use only with specific equipment   | Anbo kek abotek A      | N <sup>Noore</sup> N  |
| Anbotek   | If not marked for specific equipment it is marked with:                      | Anborek Anborek        | Anbotek               |
| Anbotek   | The maximum rated current or power; or                                       | stek unbotek Anbor     | N                     |
| abo       | Symbol 14 with full details in the documentation                             | stek subotek Anbois    | N                     |
| 5.1.4     | Fuses  | nbo hek abotek Anbo    | Р                     |
| hotek     | Operator replaceable fuse marking (see also 5.4.5):                          | Anbois Anbotek Ar      | N                     |

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| Clause   | Requirement – Test   | Result - Remark       | Verdict        |
|----------|--|-----------------------|----------------|
| anbotek. | Antipoten Antipoten Antipoten Antipoten  | ek hopotek hopot      | put            |
| 5.1.5    | Terminals, connections and operating devices   | otek unbotek Anboat   | P              |
| 5.1.5.1  | General  | otek Anbotek Anbote   | Р              |
| tek Anl  | Where necessary for safety, indication of purpose<br>of TERMINALS, connectors, controls and<br>indicators marked | Anbotek Anbotek Anb   | potek P        |
| Lotek.   | Insufficient space, symbol 14 used   | k hotek Anbotek       | Anna N.ex      |
| Anbotek  | Push-buttons and actuators of emergency stop devices and indicators:   | tek Anbotek Anbotek   | Anbor<br>Anbor |
| Aupore   | used only to indicate a warning of danger or   | abotek Anboten Anto   | ex N ant       |
| ek Anb   | the need for urgent action   | botek Anboien Anbo    | N N            |
| ootek 1  | coloured red   | Ante Anboren Ar       | N              |
| botek    | coded as specified in IEC 60073  | Antotek Anbotek       | Net            |
| Anbotek  | Supplementary means of coding provided, if meaning of colour relates (see IEC 60073):                            | nek Anbolek Anboles   | Anno<br>Anbote |
| Aupon    | to safety of persons; or   | botek Anbon An        | ek N prit      |
| sk Anbr  | safety of the environment  | subotek Anbots And    | otek N         |
| otek p   | Indication of emergency stop devices   | anbotek Anbots An     | N              |
| 5.1.5.2  | Terminals  | - nbotek Anbote       | Ann wonsk      |
| obotek   | Mains supply terminals identified  | ek pobotek Anbolo     | Note           |
| A shotek | Other terminal marking:  | rek abotek Anbote     | Ann            |
| 4        | a) Functional earth terminals (symbol 5 used)  | poor her poorek Anbor | Nem            |
| reft hu  | b) Protective conductor terminals:   | Anbo, tak abotek Ant  | P              |
| o, p     | Symbol 6 is placed close to or on the terminal;  | Anbo, pr.             | nbote P        |
| nbon     | Part of appliance inlet  | Anborn ek ubotek      | Anto N         |
| Anbor    | c) Terminals of control circuits(symbol 7 used)  | ek Anbor Ar bokek     | Noter          |
| Anbois   | d) Hazardous live terminals supplied from the interior   | potek Arbon An        | - Aupo         |
| elt de   | Standard mains socket outlet; or   | unbo lek nbotek Anb   | N              |
| vek h    | Ratings marked; or   | Anbut tek pobotek     | N N            |
| hbo.     | Symbol 14 used   | Anbo, tek abotek      | Anbon          |
| 5.1.6    | Switches and circuit-breakers  | anborn print potek    | ArNoter        |
| Aupor    | If disconnecting device, off- position marked  | optek Anboli ak hotel | Nabo           |
| Anbor    | If push-button used as power supply switch:  | nbotek Anborn And     | N N pr         |
| iek pul  | Symbol 9 and 15 used for on-position   | subotek Anborn An     | notek N        |
| otek     | Symbol 10 and 16 used for off-position   | stek unboto A         | N              |

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|-------------|---|-------------------------|----------------------|
| Anbotek     | hando h. handolek Anbole Anti-  | k Anbotek Anbo          | nboret               |
| anbotel     | Pair of symbols 9, 15 and 10, 16 close together   | otek anbotek Anbo       | N                    |
| 5.1.7 proto | Equipment protected by double insulation or reinforced insulation                                     | nbotek Anbotek Anbo     | le <sup>k</sup> N    |
| Yer A       | Protected throughout (symbol 11 used)   | Anbote, Ann otek M      | lo <sup>otek</sup> N |
| boter       | Only partially protected (symbol 11 not used)   | Anboten And atek        | NtootN               |
| 5.1.8       | Field-wiring terminal boxes   | No such parts           | Nobotek              |
| Anboten     | If terminal or enclosure exceeds 60°C:  | hek Anboten Anbo        | N                    |
| anbo        | Cable temperature rating marked   | hotek Anbotek Anbo      | N                    |
| ek pr       | Marking visible before and during connection or beside terminal                                       | Anbotek Anbotek Anbo    | po <sup>tek</sup> N  |
| 5.2         | Warning markings  | Anboto Ans wotek        | anbotek              |
| Anboto      | Visible when ready for normal use   | Anbotes Anbo            | Pek                  |
| Anboter     | Are near or on applicable parts   | rek Anboler Anbo        | Phot                 |
| Anbot       | Symbols and text correct dimensions and colour:   | hotek Anbotek Anbo      | Р                    |
| K AN        | a) symbols min 2,75 mm and text 1,5 mm high and contrastingin colour with background                  | Anbotek Anbotek Anbo    | otek P               |
| ototek      | b) symbols and text moulded, stamped or engraved in material min. 2,0 mm high and                     | Anbotek Anbotek         | unboter P            |
| Anbotek     | 0.5 mm depth or raised if not contrasting in colour   | ek Anbotek Anbotek      | Anborr               |
| Aupon       | If necessary marked with symbol 14  | potek Anbole Ant        | Pant                 |
| Ant Ant     | Statement to isolate or disconnectif access<br>byusing a tool to HAZARDOUS LIVE parts is<br>permitted | Anbotek Anbotek Anb     | otek P               |
| 5.3         | Durability of markings  | Anbotek Anbot .ek       | P                    |
| Anbotek     | The required markings remain clear and legible in normal use  | (see appended table)    | Anbote               |
| 5.4         | Documentation   | joten Anton otek Anbote | 400                  |
| 5.4.1       | General   | unboron Andro otek unbr | P                    |
| hotek p     | Equipment is accompanied by documentation for safety purposes for operator or responsible body        | Anbotek Arbotek A       | tbote <sup>K</sup> P |
| Anbotek     | Safety documentation for service personnel authorized by the manufacturer                             | 6 Anbotek Anbotek       | Anbore               |
| Anboro      | Documentation necessary for safe operation is provided in printed media or                            | otek Anborek Anborek    | Panbo                |
| ek br.      | in electronic media if available at any time  | nbo tek abotek Anbo     | Р                    |
| 4 Mar       | Documentation includes:   | Anbo, tek stotek Ar     | bon                  |
| 00,0        | a) Intended use   | Anber Astrony           | Anthone P            |

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|------------------|--|---|------------------------------|
| Anbore           | Ann Anboles Anboles Anbo   | ek Anbols Ant Abotek                            | Anboten                      |
| Anbote           | b) Technical specification   | potek Anbote Ans hotel                          | Popoter                      |
| Anbo             | c) Name and address of manufacturer or supplier  | abotek Anbote Anu                               | P notor                      |
| ek 45            | d) Information specified in 5.4.2 to 5.4.6   | Ant Anbotek Anbotek Anb                         | Р                            |
| potek            | e) Information about how to mitigate risks remaining   | Antotek Anbotek A                               | P P                          |
| Anboten          | f) accessories for safe operation of the equipment specified   | Anboten Anbotek                                 | AmPrek                       |
| Aupol            | g) guidance provided to check correct function of<br>the equipment, if incorrect reading may cause a<br>hazard from harmful or corrosive substances of<br>hazardous live parts | Anbotek Anbotek Anbotek<br>Anbotek Anbotek Anbo | P <sup>abo</sup><br>tek Anbo |
| otek             | h) Instructions for lifting and carrying (see 7.5)   | Anbotek Anbo tek                                | Notot                        |
| Anbotek          | Warning statements and a clear explanation of warning symbols:   | Anbotek Anbo                                    | AnbBiek                      |
| Ann              | Provided in the documentation; or  | ore" And otek unbotek                           | N                            |
| And              | Information is marked on the equipment   | abotes Anto stek habot                          | N Anbo                       |
| .4.2             | Equipment ratings  | Anboter Anbo                                    | potek - Ani                  |
| oten             | Documentation includes:  | Anboten Anbo                                    | obotek                       |
| nbotek           | a) Supply voltage or voltage range   | Anbotek Anbo                                    | Р                            |
| anbotek          | Frequency or frequency range   | tek anbotek Anbo                                | Notek                        |
| Anbote           | Power or current rating  | otek anbotek Anbou                              | N bott                       |
| Anb              | b) Description of all input and output connections in accordance to 6.6.1 a)   | Anbotek Anbotek Anbo                            | prek P Ant                   |
| hotek I          | c) Rating of insulation of external circuits as required by 6.6.1b)  | Anbotek Anbotek                                 | Anbote <sup>K</sup> N        |
| Anbotek          | d) Statement of the range of environmental conditions  | Ambient temperature:<br>5℃~40℃                  | Anb P<br>Anbotek             |
| Pupo             | e) Degree of ingress protection (IP, IEC 60529)  | IPX0  | Punbole                      |
| Pup              | f) Impact rating less than 5 J   | Anbotek Anboi Ali                               | otek P Anb                   |
| er p             | IK code in accordance to IEC 62262 marked or   | anbotek Anbor All                               | toote <sup>M</sup> N p       |
| potek            | symbol 14 of table 1 marked, with  | Anbotek Anbor I                                 | P                            |
| anbotek          | RATED energy level and test method stated  | ek anbotek Anbots                               | N                            |
| .4.3             | Equipment installation   | otek unbotek Anbore                             | - hotel                      |
| a abo            | Documentation includes instructions for:   | atek anbotek Anbote                             | alt - wa                     |
| alt de           | a) Assembly, location and mounting requirements  | Anbotek Anbotek Anbo                            | Р                            |
| .tell.           | b) Protective earthing   | Anton Jok abotek A                              | N                            |
| , <sup>0</sup> , | c) Connections to supply   | Anbo pi   | anboten P                    |



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| Clause   | Requirement – Test  | Result - Remark       | Verdict              |
|----------|---|-----------------------|----------------------|
| anbotek  | habor Ar botek Anboter Anti-  | at hobotek pobo       | All                  |
| anbotek  | d) Permanently connected equipment:   | stek unbotek Anbore   |                      |
| - nbot   | 1) Supply wiring requirements   | otek subotek Anbore   | N                    |
| telk An  | 2) If external switch or circuit-breaker, requirements and location recommendation                | Anborek Anborek Anbo  | botek N              |
| ibotet.  | e) ventilation requirements   | Anbotet Anbo tek      | N                    |
| Anbotek  | f) special services (e. g. air, cooling liquid)   | anbotek Anbo          | N                    |
| anbotek  | g) Instructions relating to sound level   | hek anbotek anbo      | N                    |
| 5.4.4    | Equipment operation   | untek unbotek unbon   | ak                   |
| ok ont   | Instructions for use include:   | no otek unbotek Anbo  |                      |
| potek    | a) identification and description of operating controls   | (see user manual)     | P                    |
| nibotek  | b) Positioning for disconnection  | anbotek Anboir        | Net                  |
| - abotek | c) Instructions for interconnection   | ek nbotek Anbote      | P                    |
| hote     | d) Specification of intermittent operation limits   | (see user manual)     | Р                    |
| Ar 10    | e) Explanations of symbols used   | born ak spotek Anbor  | PAR                  |
| with the | f) Replacement of consumable materials  | Anbor Ak abotek Ant   | N                    |
| 201 P    | g) Cleaning and decontamination   | Anbon At Abovek       | unbote N             |
| Anbon    | h) Listing of anypoisonous or injurious gases and quantities                                      | Anboile Antoniek      | Anto N               |
| Anbotel  | i) RISK reduction procedures relating to flammable liquids (see 9.5)                              | potek Anbotek Anbotek | N                    |
| tek Anbr | j) RISK reduction procedures relating burn from surfaces permitted to exceed limits of 10.1       | Anbotek Anbotek Anb   | o <sup>tek</sup> N p |
| nbotek   | Additional precautions for IEC 60950 conforming equipment in regard to moistures and liquids      | Anborek Anborek       | nbote<br>Nk          |
| Anbotek  | A statement about protection impairment if used in a manner not specified by the manufacturer     | k Anbotek Anbotek     | Ann Notek            |
| 5.4.5    | Equipment maintenance and service   | otek Anbore An-       | babo                 |
| Anbo     | Instructions for responsible body include:  | shotek Anbote An      | 10K 101              |
| stek pr  | Instructions sufficient in detail permitting safe maintenance and inspectionand continued safety: | Anbotek Anboten Anb   | botek P              |
| nbotek   | Instruction against the use of detachable MAINS supply cord with inadequate rating                | Anbotek Anbo          | P <sup>k</sup>       |
| Anbor    | Specific battery type of user replaceable batteries   | K Aupor han apolek    | AnBoten              |
| Anbois   | Any manufacturer specified parts  | otek Anbor Ar         | Pobo                 |
| Anbot    | Rating and characteristics of fuses   | motek Anbors An       | e <sup>≫</sup> P     |
| rek pri  | Instructions include following subjects permitting safe servicing and continued safety:           | Anborek Anbore Ant    | potek P              |
|          | a) product specificRISKSmay affect service<br>personnel   | anbote Anto           | P.                   |

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| oter   | EN 61010-1  | Anboten Anbo    | Anbotek            |
|--------|---|-----------------|--------------------|
| Clause | Requirement – Test  | Result - Remark | Verdict            |
| Anbor  | And stek anboten Anbo ak ho   | ek Anbort An    | stek suboten       |
|        | b) protective measures for theseRISKS                                 | otek Anboten Ar | P bott             |
| K bob  | c) verification of the safe state after repair                        | hotek anbotek   | And P              |
| 5.4.6  | Integration into systems or effects resulting from special conditions | Anbotek Anbotek | Anbo N h           |
| nboten | Aspects described in documentation                                    | Anboten Anbo    | N <sup>bot</sup> N |

| 6 suboter      | Protection against electric shock  |                         | wote                  |
|----------------|--|-------------------------|-----------------------|
| 6.1            | General  | untek unbotek Anbote    | 24 <u>400</u>         |
| 6.1.1          | Requirements   | notek anbotek Anbo      | walk                  |
| botek          | Protection against electric shock maintained in<br>NORMAL CONDITION and SINGLE FAULT<br>CONDITION                    | Comply with requirement | P                     |
| Anotek         | ACCESSIBLE parts not HAZARDOUS LIVE  | at botek Anbotet        | Anter<br>P atel       |
| Anbot<br>Anbot | Voltage, current, charge or energy below the limits<br>in NORMAL CONDITION and in SINGLE FAULT<br>CONDITION between: | botek Anbotek Anbotek   | P                     |
| ABK            | ACCESSIBLE parts and earth   | And tek sabotek An      | N                     |
| Anbotek        | Two ACCESSIBLE parts on same piece of the equipment within a distance of 1,8 m                                       | Anbotek Anbotek         | Anbolt P              |
| Anboren        | Conformity is checked by the determination of 6.2<br>and 6.3 followed by the tests of 6.4 to 6.11                    | ek Anboren Anborek      | Pore                  |
| 6.1.2          | Exceptions   | both Anboth Anboth      | - Aller               |
| otek P         | Following HAZARDOUS LIVE parts may be accessible to an OPERATOR:   | Anborek Anbolek Ant     | N Pr                  |
| Anbotek        | a) parts of lamps and lamp sockets after lamp removal  | Anbotek Anbor           | AnboN*                |
| Anbo           | b) parts to be replaced by operator only by the use of tool and warning marking                                      | otek Anbotek Anbotek    | P.N.                  |
| K Anbr         | Those parts not hazardous live 10 s after interruption of supply   | Anbotek Anbotek Anbo    | tek N pril            |
| oter p         | Capacitance test if charge is received from internal capacitor   | Anbotek Anbotek A       | nbote <sup>k</sup> N  |
| 6.2            | Determination of accessible parts  | Anbotek Anbotes         | Anon-dek              |
| 6.2.1          | General  | work whotek Anboter     | And                   |
| Anbo           | Unless obviously determination of accessible parts as specified in 6.2.2 to 6.2.4                                    | nbotek Anbotek Anbote   | P <sup>rite</sup> Ant |
| 6.2.2          | Examination  | anborek Anbora An       | notek P               |
| botek          | - with jointed test finger (as specified B.2)  | botek Anboth A          | Р                     |

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| Clause      | Requirement – Test  | Result - Remark  | Verdict               |
|-------------|---|--|-----------------------|
| Jiause      | Requirement – Test  | Result - Remark  | Verdici               |
| Antotek     | - with rigid test finger (as specified B.1) anda force of 10 N  | otek Anbotek Anbotek                                       | Panbo                 |
| 6.2.3       | Openings above parts that are hazardous live  | No openings  | iek N Ar              |
| notek Ani   | - test pin with length of 100 mm and 4 mm in diameter applied   | Anbotek Anbotek Ar   | botek N               |
| 6.2.4       | Openings for pre-set controls   | Ant hotek Anboten  | Ant Niek              |
| Anbotek     | - test pin with length of 100 mm and 3mm in diameter applied  | prek Amborek Amborek                                       | AnN<br>Anbot          |
| 3.3 problem | Limit values for accessible parts   | stootek Anbote Ant   | ok - ant              |
| 6.3.1       | Levels in normal condition  | botek Anboten Anos   | Ne <sup>M</sup> P     |
| potek p     | a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.  | Accessible enclosure voltage<br>less than limit value      | AnboltP               |
| Anboi       | for wet locations voltage limits less than 16 V<br>r.m.s. and 22,6 V peak or 35 V d.c.  | Anbortek Anbotek   | prit N <sup>ter</sup> |
| anbotel     | Voltages are not HAZARDOUS LIVE the levels of:  | stek sobotek Anbot   | per-                  |
| otek Anbr   | <ul> <li>b) Current less than 0,5 mA r.m.s. for sinusoidal,<br/>0,7 mA peak non sinusoidal or mixed<br/>frequencies or 2 mA d.c. when measured with<br/>measuring circuit A.1 or A.2 if less than 100 Hz</li> </ul> | Anbotek Anbotek Anbot                                      | otek N Am             |
| Inpotor     | for wet locations measuring circuit A.4 used  | Anboron & Ano  | AnbNeh                |
| Anboro      | c) Levels of capacitive charge or energy less:  | ek Anboren Ann otek  | Note                  |
| Anboten     | 1) 45 $\mu$ C for voltages up to 15 kV peak or d.c. or line A of Figure 3   | botek Anbotek Anbote                                       | e N <sub>Anb</sub>    |
| stek pr     | 2) 350 mJ stored energy for voltages above 15 kV peak or d.c.   | Anbotek Anbotek Anb  | obotek                |
| 5.3.2       | Levels in single fault condition  | Anbotek Anbor  | P.K                   |
| Anbotek     | a) Voltage limits less than 33 V r.m.s. and 46,7 V peak or 70 V d.c.  | Accessible enclosure voltage<br>less than limit value      | Potel                 |
| Anbo        | for wet locations voltage limits less than 16 V<br>r.m.s. and 22,6 V peak or 35 V d.c.  | otek Anbotek Anbotek                                       | N.ob <sup>c</sup>     |
| tek an      | Voltages are notHAZARDOUS LIVEthe levels of:  | ant otek anbotek Anb                                       | ret-                  |
| Anbotek     | b) Current less than 0,5 mA r.m.s. for sinusoidal,<br>0,7 mA peak non sinusoidal or mixed<br>frequencies or 2 mA d.c. when measured with<br>measuring circuit A.1 or A.2 if less than 100 Hz                        | And<br>Anbotek<br>Anbotek<br>Anbotek<br>Anbotek<br>Anbotek | Anbotek<br>Anbotek    |
| Aupon       | for wet locations measuring circuit A.4 used  | otek Anbort Ant  | Nabo                  |
| Anbor       | c) Levels of capacitive charge or energy less:  | nbotek Anbots Anb  | N N                   |
| ek Ant      | 1) 45 μC for voltages up to 15 kV peak or d.c. or line A of Figure 3  | Anborek Anboren Anbo                                       | botek N               |

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| Clause          | Requirement – Test   | Result - Remark                              | Verdict              |
|-----------------|--|--|----------------------|
| Anboten         | Ando tak antiotek Antione Anti   | ek Anbuket Anbo                              | nbotek               |
| Anbotek         | 2) 350 mJ stored energy for voltages above 15 kV peak or d.c.  | otek Anbotek Anbo                            | N                    |
| 6.4             | Primary means of protection  | Inboten Ann otek anbo                        | P AN                 |
| 6.4.1           | ACCESSIBLE parts prevented from being<br>HAZARDOUS LIVE by one or more of following<br>means:  | Anbotek Anbotek A                            | Anbotek P            |
| Anbotek         | a) ENCLOSURES or PROTECTIVE BARRIERS<br>(see 6.4.2)  | rek sobotek Anbotek                          | AnPton               |
| abol            | b) BASIC INSULATION(see 6.4.3)   | tek nbotek Anbort                            | Р                    |
| .e. 40          | c) Impedance (see 6.4.4)   | anboi Ali abotek Anboi                       | N                    |
| 6.4.2           | Enclosures and protective barriers   | Anboi tek sobotek An                         | Р                    |
| bor             | - meet rigidity requirements of 8.1  | Anbo vek sobotek                             | Anboro N             |
| Anbou           | - meet requirements for BASICINSULATION, if protection is provided by insulation   | ek Anbotek Anbotek                           | An'N'                |
| anbot<br>ek Ant | - meet requirements of 6.7 for CREEPAGE and<br>CLEARANCES between ACCESSIBLE parts and<br>HAZARDOUS live parts, if protection is provided<br>by limited access | botek Anbotek Anbor<br>Anbotek Anbotek Anbor | N And                |
| 6.4.3           | Basic insulation   | Anbor Ar botek                               | nbote P              |
| Anbois          | - meet CLEARANCE, CREEPAGE DISTANCE<br>and solid insulation requirements of 6.7  | Anborek Anborek                              | AnbPen               |
| 6.4.4           | Impedance  | tek abotek Anbote                            | N                    |
| k pup           | Impedance used as primary means of protection meets all of following requirements:   | Anbotek Anbotek Anbot                        | N <sup>Ame</sup>     |
| otek I          | a) limits current or voltage to level of 6.3.2   | Anbotek Anbo                                 | obote <sup>N</sup> N |
| Inbotek         | b) RATED for maximum WORKINGVOLTAGE<br>and the amount of power it will dissipate   | Anbotek Anbo                                 | AnboNK               |
|                 | c) CLEARANCE, CREEPAGE DISTANCE<br>between terminations of the impedance meet<br>requirements of BASICINSULATION of 6.7  | otek Anbotek Anbotek                         | PN <sup>O1</sup>     |
| 6.5             | Additional means of protection in case of single fault condition   | unboitek Anbotek Anb                         | hen hi               |
| 6.5.1           | ACCESSIBLE parts are prevented from becoming<br>HAZARDOUS live by the primary means of<br>protection and supplemented by one of:                               | Anbotek Anbotek Anbotek                      | Anbotok              |
| Anbotek         | a) PROTECTIVEBONDING(see 6.5.2)  | stek subotek Anboro                          | P                    |
| a abo           | b) SUPPLEMENTARYINSULATION (see 6.5.3)   | stek unbotek Anbore                          | Р                    |
| lek bi          | c) automatic disconnection of the supply (see 6.5.5)   | Anborek Anborek Anbo                         | N N                  |
| botett          | d) current-or voltage-limiting device (see 6.5.6)  | abotel Anborr A                              | N                    |

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| Clause  | Requirement – Test   | Result - Remark                             | Verdict             |
|---------|--|---|---------------------|
| anbotek | Anbor An Hotek Anboren Anu   | ek hobotek hobo                             | potek               |
| Anbotek | Alternatively one of the single means of protection is used:   | otek Anbotek Anbotek                        | N Anbot             |
| Aug     | e) REINFORCED INSULATION(see 6.5.3)  | inboten Anbo                                | lek N An            |
| ter Ar  | f) PROTECTIVE IMPEDANCE (see 6.5.4)  | Anbotek Anbo                                | bote <sup>K</sup> N |
| 3.5.2   | Protective bonding   | Anbotet Anton tek                           | - abotely-          |
| 6.5.2.1 | ACCESSIBLE conductive parts, may become<br>HARZARDOUSLIVE in SINGLE FAULT<br>CONDITION:  | hek Anbotek Anbotek                         | Anbertek            |
| Anbot   | Bonded to the PROTECTIVE CONDUCTOR TERMINAL; or  | hotek Anbole And                            | ok Ant              |
| potek   | Separated by conductive screen or barrier bonded to PROTECTIVE CONDUCTOR TERMINAL  | Anbotek Anbotek Ar                          | porc N              |
| 6.5.2.2 | Integrity of protective bonding  | anbotek Anbur                               | abotek.             |
|         | a) Protective bonding consists of directly<br>connected structural parts or discrete<br>conductors or both; and withstands thermal and<br>dynamic stresses | potek Anbolek Anbo<br>Dotek Anbolek Anbolek | N Anto              |
| , alt   | b) Soldered connections:   | Anbo, ak botek An                           | oter 1              |
|         | Independently secured against loosening  | Anbor Ar botek                              | unbote N            |
| Anbors  | Not used for other purposes  | Anboit An hotek                             | AntoN               |
| Anboro  | c) Screw connections are secured   | lek Anborn Am hotek                         | Noote               |
| Anbore  | d) Protective bonding not interrupted  | potek Anbore Ant                            | 6 N <sub>an</sub> b |
| k Anb   | exempted as removable partcarries MAINS<br>SUPPLY INPUT connection   | Anbotek Anbotek Ant                         | otek N P            |
| nbotek  | e) Any moveable PROTECTIVE BONDING<br>connection specifically designed, and meets<br>6.5.2.4   | Anbotek<br>Anbotek<br>Anbotek               | nbore N<br>Anborek  |
| Anto    | f) No external metal braid of cables used (not regarded as PROTECTIVE BONDING)   | otek Anbotek Anbotek                        | P N <sup>o</sup>    |
| Anbo    | g) If mains supply passes through:   | botek Anboten Ano                           | 10H - 101           |
| tek A   | Means provided for passing protective conductor  | hotek Anboten And                           | N                   |
| hotek   | Impedance meets 6.5.2.4  | All Hotek Anboten A                         | 10-<br>tek          |
| Anbotek | h) Protective conductors bare or insulated,<br>if insulated, green-and-yellow  | An-<br>Anbotek Anbotek                      | Anbo N<br>Anbotek   |
| Anbore  | Exceptions:  | otek Anboto And                             | Anbo                |
| Anbo    | 1) earthing braids   | obotek Anbote, Ano                          | N N                 |
| lek bi  | 2) internal protective conductors etc.   | hotek Anboten Anto                          | N                   |
| a Ma    | Green/yellow not used for other purposes   | prin and tooler pi                          | N                   |

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| Clause             | Requirement – Test  | Result - Remark        | Verdict                           |
|--------------------|---|------------------------|-----------------------------------|
| opotek             | knoon Ano hotek Anboten Ano   | ek hobokek hobor       | pin                               |
| Anbotek            | TERMINAL suitable for connection of a PROTECTIVE CONDUCTOR, and meets 6.5.2.3   | otek Anbotek Anbotek   | NANDO                             |
| 6.5.2.3            | Protective conductor terminal   | inboten Anbo           | lek - pro                         |
| ter Pr             | a) Contact surfaces are metal   | Anbotek Anbo           | botek P                           |
| upoter.            | b) Appliance inlet used   | Anboten Anbo tek       | Product                           |
| Anbotek<br>Anbotek | c) For rewireable cords and permanently<br>connected equipment, protective conductor<br>terminal is close to mains supply terminals | hek Anbotek Anbotek    | AmPrek                            |
| Anbor              | d) If no mains supply is required, any protective conductor terminal:   | abotek Anbotek Anbot   | ek - Anl                          |
| potek              | Is near terminals of circuit for which protective earthing is necessary   | Anborek Anborek An     | N N                               |
| Anbotek            | External if other terminals external  | Anbotek Anbo           | Nex                               |
| Anbotek            | e) Equivalent current-carrying capacity to mains supply terminals   | ek Anbotek Anbotek     | N Anbote                          |
| Aup                | f) If plug-in, makes first and breaks last  | poten Anburgek unbot   | N Ant                             |
| otek I             | g) If also used for other bonding purposes, protective conductor:   | Anbotek Anbotek Ant    | jotek - I                         |
| otek               | Applied first   | Antotek Anbotek        | Nor Nor                           |
| Anthotek           | Secured independently   | Ann Lotek Anbotek      | An <sup>b</sup> N                 |
| Ano                | Unlikely to be removed by servicing   | And Lotek anbotek      | N                                 |
| Augo               | h) Protective conductor of measuring circuit:   | poten Anno otek Anbote | <sup>A</sup> NA <sup>nb</sup>     |
| otek p             | 1) Current RATING equivalent to measuring circuit TERMINAL;   | Anbolek Anbolek Anb    | ote <sup>k</sup> N P              |
| hotek              | 2) PROTECTIVE BONDING:  | Ann wotek Anboter      | Nx                                |
| wotek              | Not interrupted; or   | k hotek Anbotek        | And N tek                         |
| Anbotek            | i) Functional earth terminals allow independent connection  | otek Anbotek Anbotek   | <sup>A</sup> N<br>Anbo            |
| h pubo             | j) If a binding screw used for PROTECTIVE<br>CONDUCTOR TERMINAL:  | Anbotek Anbotek Anb    | ne <sup>k</sup> P pr              |
| ng the             | Suitable size for bond wire   | Anbor welk wootek A    | hpore P                           |
| hborn              | Not smaller than 4,0mm (No. 6)  | Anboro Alto Attek      | Anbole                            |
| Anbor              | At least 3 turns of screw engaged   | ek Aupon Antotek       | Poter                             |
| Aupoton            | Passes tightening torque test   | optek Anboto And And   | Pinbo                             |
| Anboi              | k) Contactpressure not capable being reduced by deformation of materials  | nbotek Anbotek Anbo    | 6 <sup>34</sup> N <sub>16</sub> 5 |
| 6.5.2.4            | Impedance of protective bonding of plug-<br>connected equipment   | Anbois Autotek Ar      | N                                 |

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| Clause             | Requirement – Test   | Result - Remark                          | Verdict                       |
|--------------------|--|--|-------------------------------|
| Anboten            | And tak suboliek Anbolt All  | an Anbover Anor stell                    | nbotek                        |
| Anboten<br>Anbc    | Impedance between PROTECTIVE<br>CONDUCTOR TERMINAL and each<br>ACCESSIBLE part where PROTECTIVE<br>BONDING is specified, is:                                       | otek Anbotek Anbo<br>Nbotek Anbotek Anbo | tek Anbo                      |
| - Mar              | less than 0,1 Ohm; or  | Anbors welt shotek                       | AT DOTON N                    |
| anbotek            | less than 0,2 Ohm if equipment is provided with non detachable cord  | Anbone Anbotek                           | Anborn                        |
| 6.5.2.5            | Bonding impedance of PERMANENTLY<br>CONNECTED EQUIPMENT  | brek Anbotek Anbo                        | ek Anbo                       |
| 6.5.2.6            | Transformer protective bonding screen  | nbotek Anboi Al                          | ootak N Ar                    |
| ek pr              | Transformer provided with screen for protective bonding:   | Anbotek Anbotek                          | Anbotek N                     |
| Anbotek<br>Anbotek | screen bonding consists of directly connected<br>structural parts or discrete conductors or both;<br>and withstands thermal and dynamic stresses<br>(see6.5.2.2 a) | Anbotek<br>Anbotek<br>Anbotek<br>Anbotek | Anbor N<br>Anbotek<br>Anbotek |
| Anbos<br>at an     | screen bonding with soldered connection (see 6.5.2.2 b ) is:   | abotek Anborek An                        | ote <sup>k</sup> N An         |
| otek               | - Independently secured against loosening  | And otek Anbotek                         | Anton                         |
| dek                | - Not used for other purposes  | Ante otek onbotek                        | Nuppor N                      |
| 3.5.3              | Supplementary insulation and reinforced insulation   | ek Anbotek Anbotek                       | An <sup>b</sup> P             |
| Anbote             | - meet CLEARANCE, CREEPAGE DISTANCE<br>and solid insulation requirements of 6.7  | potek Anbolen Anbo                       | otok P Ant                    |
| 3.5.4              | Protective impedance   | Anbore Ans botek                         | inboter N                     |
| nbotek<br>Lek      | Limits current or voltage to level of 6.3.1 in<br>NORMAL and to level of 6.3.2 in SINGLE FAULT<br>CONDITION  | Anbore Ane<br>Anborek Anborek            | Anbotek N                     |
| Anbote Anbote      | CLEARANCE, CREEPAGE DISTANCE between<br>terminations of the impedance meet requirements<br>of DOUBLE or REINFORCE DINSULATION of 6.7                               | otek Anbolek Anbotek                     | het Anb                       |
| tek p              | The protective impedance consists of one or more of the following:   | unbotek Anbotek A                        | nbe <sup>tek</sup> N p        |
| botek              | a) appropriate single component suitable for safety and reliability for protection, it is:   | Anbotek Anboten<br>Anbotek botek         | Anboro                        |
| Anbore             | 1) RATED twice the maximum WORKING VOLTAGE   | k Anbolek Anbolek                        | N                             |
| Anbo               | 2) resistor RATED for twice the power<br>dissipation for maximum WORKING VOLTAGE   | nbotek Anbotek Anbo                      | N                             |
| er pi              | b) combination of components   | Anboten Anbu hak                         | otoote <sup>k</sup> N         |
|                    | Single electronic device not used asPROTECTIVE   | Anboten Anbo                             | N                             |

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| Clause                     | Requirement – Test  | Result - Remark                              | Verdict                |
|----------------------------|---|--|------------------------|
| Anbo                       | and Antonex Antonex Anton   | ak Anbott Att abotek                         | Anbotes                |
| 6.5.5                      | Automatic disconnection of the supply   | otek Anbore An hotel                         | N                      |
| Anbo                       | a) RATED to disconnect the load within time specified in Figure 2   | inbotek Anbote And                           | stek N                 |
|                            | b) RATED for the maximum load conditions of the equipment   | Anbotek Anbotek A                            | tooter N               |
| 6.5.6                      | Current- or voltage-limiting device   | An botek Anboten                             | Ant Net                |
| Annotek                    | Device complies with all of:  | Al hotek Anboten                             | N                      |
| Anbot                      | a) RATED to limit the current or voltage to the level of 6.3.2  | hotek Anbotek Anbotek                        | N <sup>abe</sup>       |
| lek ph                     | b) RATED for the maximum working voltage; and   | abotek Anbore Ane                            | ove <sup>y</sup> N     |
| botek                      | RATED for the maximum operational current if applicable   | Anbotek Anbotek Ar                           | AnboteN                |
| Anbon<br>Anbotek<br>Anbote | c) CLEARANCE, CREEPAGE DISTANCE<br>between terminations of the impedance meet<br>requirements of SUPPLEMENTARY<br>INSULATION of 6.7         | tek Anbotek Anbotek                          | An N                   |
| 6.6                        | Connections to external circuits  | botek Anboten Ano                            | Here P                 |
| 6.6.1                      | Connections do not cause ACCESSIBLE parts of<br>the following to become HAZARDOUS LIVE in<br>NORMAL CONDITION or SINGLE FAULT<br>CONDITION: | And<br>Anbotek Anbotek An<br>Anbotek Anbotek | Anbote <sup>P</sup>    |
| Anbu                       | - the external circuits   | en Anbo                                      | P                      |
| Anbo                       | - the equipment   | poten Anbu                                   | Panb'                  |
| PUPP                       | Protection achieved by separation of circuits; or   | anbotek Anbo vek of                          | ptek P p               |
| otek p                     | short circuit of separation does not cause a HAZARD   | Anbotek Anborek                              | unbote <sup>ll</sup> P |
| Ann                        | Instructions or markings for each terminal include:   | And otek unbotek                             | An <sup>bo</sup> P     |
| Annu                       | a) Rated conditions for terminal  | Anti- otek Anbotek                           | P                      |
| Anbo                       | b) Required rating of external circuit insulation   | poter Anburgetek anbote                      | Nato                   |
| 6.6.2                      | Terminals for external circuits   | unboten Anbu tek unb                         | otek - pi              |
| nbotek A                   | TERMINALS which receive a charge from an internal capacitor are not HAZARDOUS LIVE after 10 s of interrupting supply connection             | Anbotek Anbotek A                            | Anbotek N              |
| 6.6.3                      | Circuits with terminals which are hazardous live  | No such hazardous live<br>terminals          | Antotek                |
| - mabo                     | These circuits are:   | rek obotek Anbote                            | PUL                    |
| ak po                      | Not connected to accessible conductive parts; or  | inbo ek sotek Anbo                           | N                      |
| hotek pr                   | Connected to accessible conductive parts, but are<br>not mains circuits and have one terminal contact<br>at earth potential                 | Anbotek Anbotek A                            | obotek N               |

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| Clause    | Requirement – Test   | Result - Remark         | Verdict             |
|-----------|--|-------------------------|---------------------|
| Anbore    | And antek Antonek Anton A.   | Anbute Anu wotek        | Anborek             |
| Anboten   | No accessible conductive parts are hazardous live  | otek Anboten Anbo       | N                   |
| 6.6.4     | Accessible terminals for stranded conductors   | hotek Anboten Anbo      | ex -                |
| tek br    | No RISK of accidental contact because:   | in wotek Anbotek Anbi   | N                   |
| otek      | Located or shielded  | Ant otek Anbotek A      | N                   |
| Anbotek   | Self-evident or marked whether or not connected to ACCESSIBLE conductive parts   | Antorek Amborek         | Anbo'N              |
| Anbotek   | ACCESSIBLE TERMINALS will not work loose   | Hek Anbotek Anbo        | N                   |
| 6.7       | Insulation requirements  | untek Anboten Anbo      | ak                  |
| 6.7.1     | The nature of insulation   | notek unbotek Anbo      |                     |
| 6.7.1.1   | Insulation between ACCESSIBLE parts or<br>between separate circuits consist of<br>CLEARANCES, CREEPAGE DISTANCES and<br>solid insulation if provided as protection against a<br>HAZARD | Anbotek Anbotek Anbotek | Anbotek<br>Anbotek  |
| 6.7.1.2   | Clearances   | otek hnbotek Anbot      | Р                   |
| ek Ant    | Required CLEARANCES reflecting factors of 6.7.1.1  | Anbotek Anbotek Anbo    | otek P 1            |
| Anbotek v | Equipment rated for operating altitude greater<br>than 2000 m correction factor of Table 3 of 61010-<br>1 applied  | Anbotek Anbotek         | unbote P            |
| 6.7.1.3   | Creepage distances   | ek Anbolen Ann otek     | Roote               |
| Anboro    | Required CLEARANCES reflecting factors of 6.7.1.1  | potek Anboion Anon      | P <sub>An</sub> b   |
| - at      | CTI material group reflected by requirements   | Anbour Ant Ant          | Р                   |
| jon p     | CTI test performed   | Anbort All botek        | nbote P             |
| 6.7.1.4   | Solid insulation   | Anbore An hotek         | prib N              |
| Anbote    | Required CLEARANCES reflectingfactors of 6.7.1.1   | tek Anboliek Anbolek    | N                   |
| 6.7.1.5   | Requirements for insulation according to type of circuit   | Anbotek Anbotek Anbo    | tek pr              |
| nbotek u  | a) In 6.7.2 for mains circuits of overvoltage category II with a nominal supply voltage up to 300V   | Anbotek Anbotek A       | bote <sup>k</sup> N |
| Anbotek   | b) In 6.7.3 for secondary circuits separated from the circuits in a) only by means of a transformer  | ek pribolek Anbolek     | P                   |
| Anbo      | c) In K.1 for mains circuits of overvoltage category<br>III or IV or for overvoltage category II over 300V   | nbotek Anbotek Anbote   | N <sup>m</sup>      |
| rek pr    | d) In K.2 for secondary circuits separated from the circuits in c) only by means of a transformer  | Anborek Anbor An        | botek P             |
| 10-       | e) In K.3 for circuits that have one or more of:   | Anto k sotek            | Anbo'N              |

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| Clause            | Requirement – Test  | Result - Remark              | Verdict               |
|-------------------|---|------------------------------|-----------------------|
| Anboter           | have stok anboret Anbor As  | ek Anbole And atek           | anbotek               |
|                   | 1) maximum TRANSIENT OVERVOLTAGE is<br>limited to known level below the level of MAINS<br>CIRCUIT             | obtek Anbotek Anbotek Anbote | N Anbol               |
| tek A             | 2) maximum TRANSIENT OVERVOLTAGE<br>above the level of MAINS CIRCUIT  | Anbotek Anbote And           | tootek N              |
| bon botek         | 3) WORKING VOLTAGE is the sum of more than one circuit or a mixed voltage                                     | Anbonek Anbotek              | Anboth                |
| Anbotek           | 4) WORKING VOLTAGE includes recurring<br>peak voltage, may include non-sinusoidal or<br>non-periodic waveform | hotek Anbotek Anbotek        | N Aribot              |
| ek pr             | 5) WORKING VOLTAGE with a frequency above 30 kHz  | Anbotek Anboten Anb          | potek N               |
| 6.7.2             | Insulation for mains circuits of overvoltage II with a nominal supply voltage up to 300V                      | Anbotek Anbotek              | AnboteN               |
| 6.7.2.1           | CLEARANCES and CREEPAGE DISTANCES   | ak abotek Anbote             | Pote                  |
| pin               | Values for MAINS CIRCUITS of table 4 are met  | or Annotek Anbotes           | Р                     |
| an An             | Coatings to achieve reduction to POLLUTION<br>DEGREE I comply with requirements of Annex H                    | nbotek Anbotek Anbo          | P An                  |
| 6.7.2.2           | Solid insulation  | Anbotek Anboter Ar           | N                     |
| 6.7.2.2.1         | Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4     | Anbotek Anbotek              | Anbolek               |
| Anbote            | Equipment passed voltage tests of 6.8.3 with values of Table 5  | potek Anbotek Anbot          | ek N Anb              |
| Pro               | Complies as applicable:   | Anbores Anos otek An         | opter N P             |
| hotek I           | a) ENCLOSUREor PROTECTIVE BARRIER<br>Clause8  | Anbotek Anbotek              | Anbote <sup>K</sup> N |
| Anbotek           | b) moulded and potted parts requirements of 6.7.2.2.2   | ak Anbotek Anbotek           | Anborek<br>Anbotek    |
| Anbois            | c) inner layers of printed wiring boards requirements of 6.7.2.2.3  | totek Anboit Anboit          | N <sub>kn</sub> bo    |
| 404               | d) thin-film insulation requirements of 6.7.2.2.4   | Anbo tek anbotek Ant         | N                     |
| 6.7.2.2.2         | Moulded and potted parts  | Anbu tek sobotek             | N <sup>boil</sup>     |
| Anbotek<br>- otek | Conductors between same two layers are<br>separated by at least 0,4 mm after moulding is<br>completed         | ek Anbolek Anbolek           | Anbolik               |
| 5.7.2.2.3         | Inner insulation layers of printed wiring boards  | obter Ant Lotek Anbote       | Nobo                  |
| ek Anb            | Separated by at least 0,4 mm between same two layers  | Inbotes Anbotek Anb          | olek N M              |
| botek             | REINFORCE DINSULATION have adequate electric strength; one of following methods used:                         | And Anbotek Anbotek          | N                     |

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| e e e e e e e e e e e e e e e e e e e | EN 61010-1   | And when hotek A                             | nboi               |
|---------------------------------------|--|--|--------------------|
| Clause                                | Requirement – Test   | Result - Remark                              | Verdict            |
| Anbo.                                 | hotek Anbote Anu stek Anot   | Anbo Antorek                                 | Anbote             |
| Anbote                                | a) thickness at least 0,4 mm   | otek Anbote Ano                              | N                  |
|                                       | b) insulation is assembled of minimum two<br>separate layers, each RATED for test voltage of<br>Table 5 for BASIC INSULATION   | unbotek Anbotek Anbo                         | ek N Ant           |
| Anbotek<br>Anbotek                    | c) insulation is assembled of minimum two<br>separate layers, where the combination is rated<br>for test voltage of Table 5 for REINFORCED<br>INSULATION                             | Anbotek Anbotek A                            | Anbotek<br>Anbotek |
| 6.7.2.2.4                             | Thin-film insulation   | oter And stek Anbotek                        | N                  |
| hek Ant                               | Conductors between same two layers are separated by applicable CLEARANCES and CREEPAGE DISTANCES   | Anbotek Anbotek Anbo                         | ostek N Antos      |
| nbotek<br>nbotek                      | REINFORCE DINSULATION have adequate electric strength; one of following methods used:  | Anbois Anbotek                               | Anboten<br>Notek   |
| abotek                                | a) thickness at least 0,4 mm   | ek obotek Anbote                             | P. N. otek         |
| Anbote<br>lek Anb                     | b) insulation is assembled of min two separate<br>layers, each RATED for test voltage of Table 5<br>for BASIC INSULATION   | ibotek Anbotek Anbote<br>otek Anbotek Anbote | N Anbo             |
| potek<br>Anbotek                      | c) insulation is assembled of min three separate<br>layers, where the combination of two layers<br>passed voltage tests of 6.8.3 with values of Table<br>5 for REINFORCED INSULATION | Anbotek Anbotek An<br>Anbotek Anbotek        | Anbotek            |
| 6.7.3                                 | Insulation for secondeary circuits derived from mains circuits of overvoltage II with a nominal supply voltage up to 300V  | ortek Anborek Anborek Anborek                | Anbot              |
| 6.7.3.1                               | Secondary circuits where separation from MAINS CIRCUITS is achieved by a transformer providing:  | Artbotek Anbotek Ant                         | otek N An          |
| ntek                                  | - REINFORCED INSULATION  | Ann otek anbotek                             | Ny                 |
| Anon                                  | - DOUBLE INSULATION  | Anno otek Anbotek                            | Pupper             |
| Anbotek                               | - screen connected to the PROTECTIVE<br>CONDUCTOR TERMINAL   | otek Anbotek Anbotek                         | PN sobot           |
| 6.7.3.2                               | CLEARANCES   | wotek Anbotek Anbo                           | P                  |
| otek Ar                               | a) meet the values of Table 6 for BASIC<br>INSULATION and SUPPLEMENTARY<br>INSULATION; or  | Anbotek Anbotek Anb                          | ibotek P           |
| Anbotek                               | twice the values of Table 6 for REINFORCED   | k photek photek                              | Anbotek<br>Anbotek |
| Anbor<br>Anbor                        | b) pass the voltage tests of 6.8 with values of Table 6; with following adjustments:   | otek Anbor Anborek                           | Pinbone<br>ek sab  |
| otek pri                              | 1) values forREINFORCED INSULATION are<br>1,6 times the values for BASIC INSULATION  | Anborek Anborek Anbo                         | tootek P           |

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| Clause                  | Desuinement Test  | Deputt Demorts  | Vendiet               |
|-------------------------|---|---|-----------------------|
| Clause                  | Requirement – Test  | Result - Remark                                       | Verdict               |
| Anto<br>Anbotek<br>Anbo | 2) if operating altitude is greater than 2000 m values of CLEARANCES multiplied with factor of Table 3  | otek Anbotek Anbotek Anbotek                          | Р                     |
| nbotek Al               | 3) minimum CLEARANCE is 0,2 mm for<br>POLLUTION DEGREE 2 and 0,8 mm for<br>POLLUTION DEGREE 3   | Anborek Anborek Ane                                   | botek N               |
| 6.7.3.3                 | CREEPAGE DISTANCES  | - nbotek Anbot  | Pres                  |
| Anbotek                 | Based on WORKING VOLTAGE meets the values<br>of Table 7 for BASIC and SUPPLEMENTARY<br>INSULATION   | otek Anbotek Anbotek                                  | N Anborr              |
| iek pr                  | Values for REINFORCED INSULATION are twice the values of BASIC INSULATION   | Anbotek Anbotek Anb                                   | potek P               |
| botc                    | Coatings to achieve reduction to POLLUTION<br>DEGREE I comply with requirements of Annex H  | Anboitek Anboitek                                     | Anboten<br>Notek      |
| 6.7.3.4                 | Solid insulation  | ek obotek Anbote                                      | N                     |
| 6.7.3.4.1               | Withstands electrical and mechanical stresses in normal use and all RATED environmental conditions of 1.4   | botek Anbotek Anbote                                  | N Andr                |
| potek                   | a) Equipment passed voltage test of 6.8.3.1 for<br>5 s with VALUES of Table 6 for BASIC and<br>SUPPLEMENTARY INSULATION   | Anbotek Anbotek An                                    | nbotek N              |
| Anbotek                 | values for REINFORCED INSULATION are 1,6<br>times the values of BASIC INSULATION  | ek Anbotek Anbotek                                    | Anbotek<br>Anbotek    |
| Anboi<br>ak Anb         | b) if WORKING VOLTAGE exceeds300 V,<br>equipment passed voltage test of 6.8.3.1 for 1<br>min with a test voltage of 1,5 times working<br>voltage for BASIC or SUPPLEMENTARY<br>INSULATION | potek Anbolek Anbolek Anbolek Anbolek Anbolek Anbolek | r N <sub>Anbo</sub> o |
| Anborotek               | value for REINFORCED INSULATION are twice the WORKING VOLTAGE   | Anborek Anborek                                       | Anbon                 |
| botel                   | Complies as applicable:   | wolk whotek Anboren                                   | N                     |
| h w                     | 1) ENCLOSURE or protective barrier Clause 8   | wek -totek Anbote                                     | N                     |
| otek p                  | 2) moulded and potted parts requirements of 6.7.3.4.2   | Anbotek Anbotek Anb                                   | ner N An              |
| nbotek                  | 3) inner layers of printed wiring boards requirements of 6.7.3.4.3  | Anbotek Anbotek                                       | Anbo N'               |
| And                     | 4) thin-film insulation requirements of 6.7.3.4.4   | Anbo stek unbotek                                     | N                     |
| 6.7.3.4.2               | Moulded and potted parts  | oten Anbo   | Nabo                  |
| nek N                   | Conductors between same two layers are separated by applicable distancesof Table 8  | inbotek Anbotek Anbo                                  | iek N Ant             |
| 6.7.3.4.3               | Inner insulation layers of printed wiring boards  | And welk abovek Al                                    | N                     |

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| Clause            | Requirement – Test  | Result - Remark  | Verdict              |
|-------------------|---|--|----------------------|
| Anboten           | hobe tek noore Annon Ann  | ak Anbolen Anbo  | nbotok               |
| Anboteh           | Separated by at least by applicable distances of Table 8 between same two layers  | otek Anbotek Anbo  | N Anbo               |
| tek An            | REINFORCED INSULATION have adequate electric strength; one of following methods used:   | nbotek Anbotek Anbo  | stek N A             |
| Lotek             | a) thickness at least applicable distance of Table 8  | Ant hotek Anboten A  | N                    |
| Anbotek           | b) insulation is assembled of minimum two<br>separate layers, each RATED for test voltage of<br>Table 6 for BASIC INSULATION                                | Anbotek Anbotek  | Anto N<br>Anbotek    |
| ek an             | c) insulation is assembled of min two separate<br>layers, where the combination is rated for 1,6<br>times the test voltage of Table 6                       | nbotek Anbotek Anbo  | N DA                 |
| 6.7.3.4.4         | Thin-film insulation  | Arriv wotek anbotek Ar   | N                    |
| Anbotek           | Conductors between same two layers are<br>separated by applicable CLEARANCES<br>andCREEPAGE DISTANCES   | Anbotek Anbotek  | N N                  |
| Anbot             | REINFORCED INSULATION have adequate electric strength; one of following methods used:   | potek Anbotek Anbote   | N                    |
| sk Ant            | a) thickness at least applicable distance of Table 8  | hobotek Anbor Al   | otek N               |
| anbotek           | b) insulation is assembled of min two separate<br>layers, each RATEDfor test voltage of Table 6<br>for BASIC INSULATION                                     | Anbotek Anbotek An   | unboteN              |
| Anbotek<br>Anbote | c) insulation is assembled of min three separate<br>layers, where the combination of two layers<br>passed voltage tests with 1,6 time values of<br>Table 6: | ek Anbotek Anbotek<br>Dotek Anbotek Anbotek<br>Lek obotek Anbote | N                    |
| . At              | a.c. test of 6.8.3.1; or  | Anboy welk abotek Ant  | N                    |
| nbotek            | d.c. test of 6.8.3.2 for circuits stressed only by d.c. voltages  | Anbotek Anbotek  | mbore N              |
| 5.8               | Procedure for voltage tests   | ek Anbotek Anbou   | Par abote            |
| 6.9 Antonia       | Constructional requirements for protection against electric shock   | otek Anbotek Anbon   | P                    |
| 6.9.1             | If a failure could cause a HAZARD:  | unboten And stek unb   | otek P               |
| New P             | a) Security of wiring connections   | Anboten Anbo   | nbote <sup>K</sup> P |
| nboten            | b) Screws securing removable covers   | Anboten Anbu   | Product              |
| Anbotek           | c) Accidental loosening   | Anbotek Anbo   | Botel                |
| Anbotek           | d) CREEPAGE and CLEARANCES not reduced below the values of basic insulation by loosening  | otek Anbolek Anbo  | P                    |
| 6.9.2             | Material not to be used for safety relevant insulation:   | nborek Anborek Anbo  | le <sup>k</sup> N M  |
| hotek             | Easily damaged materials not used   | his botek Anboter A  | N                    |
| No.               | Non-impregnated hydroscopic materials not used  | All sek stoter   | And N.A              |



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| Clause    | Requirement – Test  | Result - Remark       | Verdict              |
|-----------|---|-----------------------|----------------------|
| Anboten   | habe have have have her   | ek Anbolek Anbo       | nbotek               |
| 6.9.3     | Colour coding   | otek anboteh Anbo     | N                    |
| Anbot     | Green-and-yellow insulation shall not be used except:                               | Inbotek Anbotek Anbo  | hek Ar               |
| ter An    | a) protective earth conductors;   | Anbote, Ann Lotek A   | lootek N             |
| boten     | b) protective bonding conductors;   | Anboter Ant otek      | NobotN               |
| Anboten   | c) potential equilization conductors;   | Anboten Anton otek    | N                    |
| Anboten   | d) functional earth conductors  | otek Anbotek Anbo     | N                    |
| 6.10      | Connection to mains supply source and<br>connections between parts of equipment     | hbotek Anbotek Anbo   | tok Ant              |
| 6.10.1    | Mains supply cords  | Anbore And Lotek Ar   | poten                |
| poto.     | Rated for maximum equipment current   | Anbote Anno Anno      | anbot <sup>e</sup> P |
| Anboton   | Cable complies with IEC 60227 or IEC 60245  | Anbotes Anbo          | Per                  |
| Anboten   | Heat-resistant if likely to contact hot parts                                       | orak Anbotes Anbo     | Noote                |
| Anbote    | Temperature rating (cord and inlet)   | hotek Anboten Anbo    | N                    |
| sk Anb    | Green-and-yellow used only for connection to protective conductor terminals         | Anbotek Anbotek An    | otek P               |
| potek p   | Detachable cords with IEC 60320 mains connectors:                                   | Anborek Anborek       | Anboten hotek        |
| nbotek    | Conform to IEC 60799; or  | ek nbotek Anbote      | A.n. N               |
| A. abotel | Have the current rating of the mains connector                                      | rek abotek Anbote     | N                    |
| 6.10.2    | Fitting of non-detachable mains supply cords  | hot his shotek Anbot  | Anu                  |
| 5.10.2.1  | Cord entry  | Anbo, ak abotek Ant   | pter P               |
| A No.     | Inlet or bushing smoothly rounded; or   | Anbo, Pr. Pr.         | anbote N             |
| nbon      | Insulated cord guard protruding >5D   | Anbor All botek       | prio N               |
| 6.10.2.2  | Cord anchorage:   | ek Anbois An hotek    | Arteoter             |
| Anbois    | Protective earth conductor is the last to take the strain                           | botek Anbole All      | N <sub>prob</sub> o  |
| stek pr   | a) Cord is not clamped by direct pressure from a screw                              | Anbotek Anbotek Anb   | botek                |
| hotek     | b) Knots are not used   | Anbotek Anbo          | N                    |
| Anbotek   | c) Cannot push the cord into the equipment to cause a hazard                        | ek Anbotek Anbotek    | Anbotek              |
| Anbo      | d) No failure of cord insulation in anchorage with metal parts                      | wotek Anbotek Anbotek | Nobo                 |
| iek an    | e) Not to be loosened without a tool  | hotek anbotek Anb     | N                    |
| botek     | f) Cord replacement does not cause a HAZARD<br>and method of strain relief is clear | Antotek Anbotek A     | N                    |

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| Clause        | Requirement – Test   | Result - Remark        | Verdict                         |
|---------------|--|------------------------|---------------------------------|
| Anbore        | And antek Anborek Anbor A.   | k Anbole Anu untek     | anbotel                         |
| Anboten       | Push-pull and or torque test   | otek Anboten Anb       | N                               |
| 6.10.3        | Plugs and connectors   | botek Anboten Anbo     | ek -                            |
| tek Al        | Mains supply plugs, connectors etc., conform with relevant specifications          | Anbotek Anbotek Anbo   | botek N                         |
| boten botek   | If equipment supplied at voltages below 6.3.2.a) or from a sole source:            | Anbotek Anbotek        | AnbotN                          |
| Anbotek       | Plugs of supply cords do not fit mains sockets above rated supply voltage          | hek Anbotek Anboten    | Anbo                            |
| p.nbo         | MAINS-type plugs used only for connection to<br>MAINS supply                       | nbotek Anbotek Anbot   | δ <sup>γ</sup> Ν <sub>β</sub> ς |
| potek pr      | Plug pins which receive a charge from an internal capacitor                        | Anbotek Anbotek An     | note <sup>k</sup>               |
| anbotek       | Accessory MAINS socket outlets:  | Anbotek Anbote         | Net                             |
| Anbotek       | a) Marking if accepts a standardMAINSplug (see 5.1.3e)                             | rak Anbotek Anbotek    | Nanbot                          |
| antion<br>art | b) Input has a protective earth conductor if outlet<br>has EARTH TERMINAL CONTACT  | botek Anbotek Anbote   | N AN                            |
| 6.11          | Disconnection from supply source   | Ann botek Anbotek Ani  |                                 |
| 6.11.1        | Disconnects all current carrying conductors  | All Lotek Anboten      | Aupo                            |
| 6.11.2        | Exceptions   | k Lotek Anbotek        | Pupp-                           |
| 6.11.3        | Requirements according to type of equipment  | Ant Lotek Anbotek      | Pupo.                           |
| 6.11.3.1      | Permanently connected equipment and multi-<br>phase equipment                      | potek Anbotek Anbotek  | N Ant                           |
| otek I        | Employs switch or circuit-breaker  | Pre Anbotek Anbote Ant | N                               |
| nbotek        | If switch or circuit-breaker is not part of the equipment, documentation requires: | Anbotek Anboten P      | Anbotek                         |
| Anboto        | a) Switch or circuit-breaker must be included in the installation                  | tek Anbolek Anbolek    | ATN of C                        |
|               | b) Suitable location easily reached  | tek abotek Anbote      | N                               |
| -alt          | c) Marking as disconnecting for the equipment                                      | unbow All abotek Anbo  | N                               |
| 6.11.3.2      | Single-phase cord-connected equipment  | Anboro Antotek A       | boten                           |
| nbo.          | Equipment is provided with:  | Anbors Ans botek       | Anboten                         |
| Anboi         | a) Switch or circuit-breaker; or   | e poloti postek        | P.N.                            |
| Auporo        | b) Appliance coupler (disconnectable without tool);                                | otek Anboli Ant Lotek  | Nab                             |
| Anbo          | c) Separable plug (without locking device)   | nbotek Anbolis And     |                                 |
| 6.11.4        | Disconnecting devices  | obotek Anbote Ano      | uotek                           |
| -otek         | Electrically close to the SUPPLY   | notek unboren Al       | N                               |

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| oter P   | EN 61010-1   | Anboten Anbo hotek A          | nbotek P        |
|----------|--|-------------------------------|-----------------|
| Clause   | Requirement – Test   | Result - Remark               | Verdict         |
| Anbore   | Ante anbolet Ante ak wot   | ek Anbors Ans                 | anbores         |
| 6.11.4.1 | Switches and circuit-breakers  | otek Anboten Anbo             | Nubotek         |
| anbo     | When used as disconnection device:   | uotek anbotek Anbo            | N               |
| ret N    | Meets IEC 60947-1 and IEC 60947-3  | anbotek anbotek Anbo          | N               |
| dek      | Marked to indicate function  | Anto otek Antotek A           | N               |
| Helt     | Not incorporated in MAINS cord   | Anb <sup>b</sup> stek unbotek | Anbo'N          |
| Anbotek  | Does not interrupt PROTECTIVE EARTH<br>CONDUCTOR   | otek Anbotek Anbotek          | AnN             |
| 6.11.4.2 | Appliance couplers and plugs   | hotek Anboten Anbo            | - 400°          |
| ok pro   | Where an appliance coupler or separable plug is used as the disconnecting device (see 6.11.3.2): | Anbotek Anbotek Anbo          | potek pr        |
| obotek   | Readily identifiable and easily reached by the operator  | Anbotek Anbotek               | Anbotek         |
| Anbotek  | Single-phase portable equipment cord length not more than 3 m                                    | orek Anbotek Anbotek          | Anth<br>Anbotek |
| Anbor    | Protective earth conductor connected first and disconnected last                                 | portek Anboi An               | K N ANDO        |

| 7         | Protection against mechanical hazards  |                       | unbu k               |
|-----------|--|-----------------------|----------------------|
| 7.1       | Equipment does not cause a mechanical<br>HAZARD in NORMAL nor in SINGLE FAULT<br>CONDITION   | ek Anbotek Anbotek    | Anbotel              |
| Ann       | Conformity is checked by 7.2 to 7.7  | poto Ann wotek Anbote | PAnb                 |
| 7.2       | Sharp edges  | Anboter And And       | ot <sup>ek</sup> P P |
| poter P   | Easily-touched parts are smooth and rounded  | Anbotet Anb           | nbotekP              |
| Anboten   | Do not cause an injury in normal use and   | Anboten Anbo          | Antho Pik            |
| Anboten   | Do not cause an injury in single fault condition   | ak Anboten Anbo       | Botek                |
| 7.3 model | Moving parts   | otek Anbotek Anbou    |                      |
| 7.3.1 M   | HAZARDS from moving parts limited to a tolerable<br>level with the conditions specified in 7.3.2 and<br>7.3.5                          | Anbotek Anbotek Anbo  | rok N pr             |
| nbotek    | RISK assessment in accordance with 7.3.3 carried out   | Anbotek Anbotek A     | N.                   |
| 7.3.2     | Exceptions:  | k Anbor with abotak   | Antone               |
| Anbo      | Access to HAZARDOUS moving parts permitted under following circumstances:  | otek Anborek Anborek  | N <sub>ab</sub> o    |
| her bu    | a) obviously intended to operate on parts or materials outside of the equipment  | Anbotek Anbotek Anbo  | N P                  |
| hoten     | inadvertent touching of moving parts minimized<br>by equipment design (e .g. guards or handles)<br>botek Compliance Laboratory Limited | Anbotek Anbotek       | AnbotN               |

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| Clause   | Requirement – Test  | Result - Remark                              | Verdict                            |
|----------|---|--|------------------------------------|
| Anbore   | And antok Antores Anton as soft   | ak Anbors Ant watek                          | anbotek                            |
|          | <ul> <li>b) If operator access is unavoidable outside<br/>normal use following precautions have been<br/>taken:</li> </ul>                              | ofek Anboren Anbor<br>Aborek Anborek Anborek | N Anbo                             |
| rek Ar   | 1) Access requires TOOL   | sbotek Anbote And                            | N Vertex                           |
| hotek    | 2) Statement about training in the instructions   | Annotek Anboten A                            | N                                  |
| Anbotek  | 3) Warning markings on covers prohibiting access by untrained operators   | Anboitek Anboiter                            | Ante N<br>Anbotek                  |
| Puppor   | or symbol 14 with full details in documentation   | otek Anborn And hotek                        | N tool                             |
| 7.3.3    | Risk assessment for mechanical HAZARDS to body parts  | nbotek Anbois And                            | e <sup>je</sup> N <sub>pro</sub> t |
| potek    | RISK is reduced to a tolerable level by protective measures as specified in Table 12  | Anborek Anborek Ar                           | pote N                             |
| Anbotek  | Minimum protective measures:  | anbotek Anbo                                 | N                                  |
| Anbotek  | A. Low level measures   | rek anbotek Anbo                             | N                                  |
| nbote    | B. Moderate measures  | otek Nabotek Anbot                           | N                                  |
| the soft | C. Stringent measures   | ntek sobotek Anbo                            | N                                  |
| 7.3.4    | Limitation of force and pressure  | And stek subotek An                          | N                                  |
| Anbotek  | Following levels are met in normal and single fault condition:  | Anbotek Anbotek                              | unbor N                            |
| Anbotek  | Continuous contact pressure below 50 N / $cm^2$ with force below 150 N  | ek Anbotek Anbo                              | Anbotel                            |
| K Anb    | Temporary force below 250 N for an area at least of 3 cm <sup>2</sup> for a maximum duration of 0,75 s  | obotek Anbotek Anbotek                       | NAn <sup>b</sup>                   |
| 7.3.5    | Gap limitations between moving parts  | An Anbotek Anbote An                         | N                                  |
| 7.3.5.1  | Access normally allowed   | au botek Anboter                             | N                                  |
| Anbotek  | If levels of 7.3.4 exceeded and body part may be<br>inserted minimum gap as specified in Table 13<br>assured in NORMAL and in SINGLE FAULT<br>CONDITION | otek Anbotek Anbotek<br>otek Anbotek Anbotek | Antonet                            |
| 7.3.5.2  | Access normally prevented   | unboten Anbo                                 | Ke <sup>k</sup> N p                |
| hotek A  | Maximum gap as specified in Table 14 assured in NORMAL and in SINGLE FAULT CONDITION  | Anbotek Anbotek A                            | nbo <sup>tek</sup> N               |
| 7.4      | Stability   | An wotek anbotek                             | Anbo                               |
| Anbotek  | Equipment not secured to the building structure is physical stable  | otek Anbotek Anbotek                         | A P<br>Anbo                        |
| Anbo     | Stability maintained after opening of drawers, etc. by automatic means, or  | inbotek Anbotek Anbo                         | er N                               |
| raft pr  | Warning marking requires the application of means   | Anbor An Antotok A                           | ooter N                            |

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| Clause   | Deguirement Test   | Desuit Demerik        | Mandiat                          |
|----------|--|-----------------------|----------------------------------|
| Clause   | Requirement – Test   | Result - Remark       | Verdict                          |
| Ann      |  | Anu stak subotak      | Aupor                            |
| Anbor    | Compliance checked by following tests as applicable:   | otek Anbor Ar         | Anbot                            |
| Por      | a) 10° tilt test for other than handheld equipment   | inbore Ann Lotek Anbo | N AN                             |
| hotek Ar | b) multi-directional force test for equipment<br>exceeds height of 1 m and mass of 25 kg     | Anbotek Anbotek Ar    | botek N                          |
| Anbotek  | c) downward force test for floor-standing equipment  | Anbotek Anbotek       | Anb N<br>Anbotek                 |
| Anboro   | d) overload test with 4 times maximum load for castor or support that supports greatest load | otek Anbole All       | Noot                             |
| ek pr    | e) castor or support that supports greatest load removed from equipment                      | Anbotek Anbotek Anbo  | N Am                             |
| 7.5      | Provisions for lifting and carrying  | Anbotek Anbo wak      | N                                |
| 7.5.1    | Equipment more than 18 kg:   | Anbotek Anbote        | Nex                              |
| abotek   | Has means for lifting or carrying; or  | ek obotek Anbore      | N                                |
| Al. abot | Directions in documentation  | tek stotek Anbote     | N                                |
| 7.5.2    | Handles or grips   | por pri pri           | Р                                |
| , alt    | Handles or grips withstand four times weight   | Andon All Antotek Ant | Р                                |
| 7.5.3    | Lifting devices and supporting parts   | Anbort All Abovek     | unboren N                        |
| Anboic   | Rated for maximum load; or   | Anbor Antotek         | An <sup>b</sup> N                |
| Anboit   | tested with four times maximum static load   | ek Anbor An           | Noore                            |
| 7.6      | Wall mounting  | potek Anbois Ano      | e                                |
| r Ant    | Mounting brackets withstand four times weight  | abotek Anbors An      | otek N p                         |
| 7.7      | Expelled parts   | abotek Anbote And     | hotek_                           |
| abotek   | Equipment contains or limits the energy  | abotek Anboin P       | N                                |
| -botek   | Protection not removable without the aid of a tool   | k sbotek Anbote       | Notek                            |
| botel    | Anbolen Anon otek Anbolek Anbei  | ok botek Anboten      | Pupe                             |
| 3        | Resistance to mechanical stresses  | bort Ant hotek Anboro | Pupo                             |
| 3.1      | Equipment does not cause a hazard when subjected to mechanical stresses in normal use        | Anbotek Anbotek Anbr  | hotek P                          |
| potek    | Normal protection level is 5J  | Considered 5J         | P                                |
| Anbotek  | Levels below 5 J but not less than 1 J are acceptable if all the following criteria are met  | Anbotek Anbotek       | And                              |
| Aupor    | a) lower level be justified by manufacturer  | ptel Anbor Ar botek   | Nabo                             |
| Anto     | b) cannot easily be touched by unauthorzed persons or the general public                     | inbotek Anbor Ann     | e <sup>sk</sup> N <sub>P</sub> r |
| ba ba    | c) only occasional access during NORMAL USE  | Anbon Ann Jok         | boyer N                          |

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| Clause          | Requirement – Test   | Result - Remark                              | Verdict              |
|-----------------|--|--|----------------------|
| Anbotek         | And A notek Anbote And   | at Anbutet Anbu                              | hotek                |
| Anbotek         | d) IK code in accordance to IEC 62262 marked<br>or symbol 14 used with full information in the | otek Anbotek Anbotek                         | N                    |
| Popo            | documentation<br>For non-metallic ENCLOSURES rated below                                       | abolet habe h                                | N P                  |
|                 | 2 °C ambient temperature value chosen for<br>minimum rated temperature                         | Anbotek Anbotek An                           | botek                |
| wotek           | Impact energies between IK values, the IK code marked for nearest lower value                  | Anborek Anborek                              | AnbotN               |
| Anu             | Conformity is checked by performing following tests:   | nek onbotek Anbotek                          | Anbo                 |
|                 | 1) the static test of 8.2.1  | ok botek Anbore                              | Р                    |
| ak An           | 2) impact test of 8.2.2 with 5J except for hand-<br>held equipment                             | hotek Anbotek Anbot                          | P P P                |
| otek            | If impact energy not selected to 5J alternate method of IEC 62262 used                         | Anbotek Anboten An                           | N N                  |
| Anbotek         | 3) drop test of 8.3.1 or 8.3.2 except for fixed and equipment with mass over 100kg             | Anbotek Anbo                                 | Anbotek              |
| Anboro          | Equipment rated with an impact rating of lk 08 by that clearly meets the criteria              | rek Anboic Antoniek                          | Anbot                |
| AUD             | After the tests inspection with following results:   | poter Anto sek abott                         | er pr                |
| e pot           | - Hazardous live parts above the limits of 6.3.2 not accessible                                | Anbotek Anbor An                             | lote <sup>k</sup> N  |
|                 | - insulation pass the voltage tests of 6.8   | Anboro Ann stek                              | unbote N             |
| nboter          | i) no leaks of corrosive and harmful substances  | Anbotes Anbo                                 | Anb Pek              |
| anboten         | ii) Enclosure shows no cracks resulting in hazard  | ek Anbote, Ann tek                           | Pot                  |
| Anbote          | iii) CLEARANCES not less than their permitted values   | potek Anborek Anbor                          | P                    |
| Ant             | iv) the insulation of internal wiring remains undamaged;                                       | Aupotek Aupotek Aup                          | <sub>ptek</sub> P    |
| ntek I          | V) Protective barriers necessary for safety have<br>not been damaged or loosened               | Anbota Anu Anu Anbotak                       | nbotelN              |
| nbubotek        | vi) No moving parts exposed, except permitted by 7.3   | Anboverek Ambotek                            | AntoN                |
| Autotel         | vii) no damage which could cause spread of fire  | alk shotek Anboten                           | P                    |
| .2              | Enclosure rigidity tests   | on All Anbotek Anbote                        | P                    |
| .2.1            | Static test  | Anbo, An botek Anbo                          | P                    |
| P               | - 30N with 12mm rod to each part of enclosure  | Anbolt All hotek A                           | nb <sup>oten</sup> P |
| pote botek      | - in case of doubt test conducted at maximum rated ambient temperature                         | Anbotek Anbotek                              | AnbolN               |
| 3.2.2 Antipotet | Impact test  | Applied to enclosure with acceptable results | P                    |
| Anbo            | Impact applied to any part of enclosure causing a hazard if damaged                            | nbotek Anboi Anbo                            | P P                  |
|                 |  |  | 105                  |

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| Clause  | Requirement – Test   | Result - Remark       | Verdict            |
|---------|--|-----------------------|--------------------|
| Anboter | And tak anborek Anbor ak not   | ek Anboiler Anb       | anbotek            |
|         | Non-metallic enclosure cooled to minimum rated ambient temperature if below 2 $^\circ\!\!\!\!\!^\circ\!\!\!\!^\circ\!\!\!\!^\circ$ | otek Anbolek Anbolek  | PAnbot             |
| 8.3     | Drop test  | inboto Ant wotek Anbo | N Ant              |
| 8.3.1   | Equipment other than HAND-HELD EQUIPMENT and DIRECT PLUG-IN EQUIPMENT  | Anboro Ano            | boten N            |
| hotek   | Test conducted with a drop height or angle of  | Ann hotek Anboten     | And Net            |
| 8.3.2   | HAND-HELD EQUIPMENT and DIRECT PLUG-IN<br>EQUIPMENT  | hek Anbotek Anbotek   | AnP<br>pote        |
| Anbot   | Non-metallic ENCLOSURES cooled to minimum RATED ambient temperature if below 2 °C  | nbotek Anbotek Anbot  | P Ant              |
| len bu  | Drop test conducted with an height of 1 m  | Anboter Anb           | o <sup>tek</sup> P |

| 9 poter  | Protection against the spread of fire   |                           | onbotek              |
|----------|---|---------------------------|----------------------|
| 9.1      | No spread of fire in normal and single fault condition  | tek Anborek Anborek       | PAnbote              |
| ek Ant   | Mains supplied equipment meets requirement of 9.6 additionally                                    | bore Ante Anborek Anborek | N And                |
| ootek    | Conformity for each source of HAZARD or area of the equipment is checked by one of the following: | Anbotek Anbote An         | unbotei <sup>P</sup> |
| Anboi    | a) Fault test of 4.4; or  | Anborn At hotek           | AnbP                 |
| Anbois   | b) Application of 9.2 (eliminating or reducing the sources of ignition); or                       | ek Anbohek Anbohek        | Noter                |
| ak Ant   | c) Application of 9.3 (containment of fire within the equipment)                                  | Anbotek Anbotek Anbot     | P <sup>AN</sup>      |
| 9.2      | Eliminating or reducing the sources of ignition within the equipment                              | Anbolek Anbolek           | nbotek_              |
| Annontek | a) 1) Limited-energy circuit (see 9.4); or  | Ame otek Anbotek          | Anb N                |
| Anbotel  | 2) Insulation meets the requirements for BASIC INSULATION; OR                                     | otek Anbotek Anbotek      | P.N<br>Mabot         |
| K AND    | Bridging the insulation does not cause ignition   | hotek Anboten And         | N N                  |
| otek p   | b) Any ignition HAZARD related to flammable liquids (see 9.5)                                     | No liquids used           | ibotek N             |
| nboie    | c) No ignition in circuits designed to produce heat   | Anbolis Ann hotek         | Anboth               |
| 9.3      | Containment of the fire within the equipment, should it occur                                     | k pribolek Anbolek        | Antrotek             |
| Anbo     | a) Energizing of the equipment is controlled by an operator held switch                           | nbotek Anbotek Anbote     | N Ant                |
| stek Al  | b) ENCLOSURE is conform with constructional requirements of 9.3.1; and                            | Anbotek Anbotek A         | poset P              |
| np.      | Requirements of 9.5 are met   | And i otek                | Anboin               |



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| Clause       | Requirement – Test  | Result - Remark   | Verdict               |
|--------------|---|---|-----------------------|
| Anbore       | knin hotek anboter Anbo   | at Anbors Ann movels  | Anboret               |
| 9.3.1        | Constructional requirements   | otek Anbote Ano   | anbote                |
|              | a) Connectors and insulating material have<br>flammability classification V-2 or better               | Fire enclosure is made of<br>metal and plastic flame rated<br>V-0 | rek P Anb             |
| hbotek<br>ok | b) Insulated wires and cables are flame retardant (VW-1 or equivalent)                                | Anbotek Anbotek Ar  | Anbote                |
| Anboit       | c) ENCLOSURE meets following requirements:  | Anborn Athen botek  | AnPro                 |
| Anbor        | 1) Bottom and sides in arc of 5 ° (see Figure 13)<br>to non-limited circuits (9.4) meets:             | otek Anbolek Anbolek  | N looter              |
| ek er        | i) no openings; or  | nbo tek aborek Anbol  | P                     |
| 10K          | ii) perforated as specified in Table 16; or   | Anbo vek unbotek An   | N                     |
| 100.<br>100. | iii) metal screen with a mesh; or   | Anbo tek subotek  | Anboron N             |
| Anbor        | iv) baffles as specified in Figure 12   | Anbor Lak abotek  | protN                 |
| Anbound      | 2) Material of ENCLOSURE and any baffle or flame barrier is made of:                                  | Fire enclosure is made of<br>plastic flame rated V-0              | Poote                 |
| ek pa        | Metal (except magnesium); or  | to tek unbotek Anbo.  | N                     |
| potek        | Non-metallic materials have flammability<br>classification V-1 or better                              | Anbotek Anbotek Ant   | P P                   |
| Anbotek      | 3) ENCLOSURE and any baffle or flame barrier have adequate rigidity                                   | Anbotek Anbo  | AnbPak                |
| 9.4          | Limited-energy circuit  | Ant hotek Anbotek   | Anbo                  |
| Ant Ant      | a) Potential not more than 30 r.m.s. and 42.4 V peak, or 60 V dc                                      | obotek Anbotek Anbotek  | NANDO<br>Nando        |
| otek         | b) Current limited by one of following means:   | Ar anbotek Anbote An  | -otok-                |
| -botek       | 1) Inherently or by impedance;  | potek Anboten p   | NX                    |
| hotek        | 2) Over current protective device;  | K botek Anboten   | Ant N stek            |
| Anbote       | 3) A regulating network limits also in SINGLE<br>FAULT CONDITION                                      | otek Anbotek Anboten  | AN                    |
| r Anb        | c) Is separated by at least BASIC INSULATION  | obotek Anbore An  | tek N prib            |
| otek p       | Fuse or a nonadjustable electromechanical device is used  | Anbotek Anbote Ann  | ibotek-               |
| 9.5          | Requirements for equipment containing or using flammable liquids                                      | No flammable liquids used   | Anbotek               |
| Anbotek      | Flammable liquids contained in or specified for use with equipment do not cause spread of fire        | otek Anbotek Anbo   | N<br>Anbote           |
| Ano          | Risk is reduced to a tolerable level :  | nboter Anor otek nabo   | iek Anbr              |
| hotek A      | a) The temperature of surface or parts in contact<br>with flammable liquids is 25 °C below fire point | Anborek Anborek An  | bote <sup>k</sup> N A |
| Nex          | b) The quantity of liquid is limited  | No such liquid used   | Anbo N .k             |



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| Clause  | Requirement – Test  | Result - Remark       | Verdict               |
|---------|---|-----------------------|-----------------------|
| Anboten | hab stek anbotek Anbot All  | ek Anboter Anbo       | anbotek               |
| Anbotel | c) Flames are contained within the equipment                              | otek Anboten Anbo     | N                     |
| k anbr  | Detailed instructions for risk-reduction provided                         | Lotek Anbotek Anbo    | N                     |
| 9.6     | Overcurrent protection  | knu otek sphotek Anbo | N                     |
| 9.6.1   | Mains supplied equipment protected  | And stek anbotek Ar   | N                     |
| Anbotek | Basic insulation between mains parts of opposite polarity provided        | Anbotek Anbotek       | Anbo'N                |
| Anboten | Devices not in the protective conductor                                   | stek Anboten Anbo     | Nibore                |
| Anbo    | Fuses or single pole circuit-breakers not fitted in neutral (multi-phase) | hbotek Aribotek Anbo  | ek N Anb              |
| 9.6.2   | Permanently connected equipment   | Ambore Amb Lotek An   | po <sup>ten</sup> N I |
| boton   | Overcurrent device:   | Anboten Anbo          | N <sup>toote</sup> N  |
| Anboto  | Fitted within the equipment; or   | Anbotes Anbo          | Nek                   |
| Anbotek | Specified in manufacturer's instructions                                  | orek Anbotek Anbo     | Noote                 |
| 9.6.3   | Other equipment   | notek Anbotek Anbo    | N                     |
| ek vi   | Protection within the equipment   | ak abotek Antion      | N                     |

| 10       | Equipment temperature limits and resistance to  | o heat               | Anto Jok             |
|----------|---|----------------------|----------------------|
| 10.1     | Surface temperature limits for protection against burns   | Hek Anbotek Anbotek  | Anbotel              |
| Anbote   | Easily touched surfaces within the limits in NORMAL and in SINGLE FAULT CONDITION:                                | (see appended table) | e P <sub>anb</sub> r |
| Pri-     | - at an specified ambient temperature of 40 °C  | Anborn ok stotek Anb | N                    |
| anbotek  | - for equipment rated above 40 °C ambient<br>temperature limits not exceeded raised by the<br>difference to 40 °C | Anborek Anborek      | nbote P<br>Anbotek   |
| Anbote   | Heated surfaces necessary for functional reasons exceeding specified values:                                      | ter Antorek Anbotek  | And Don              |
| K phb    | Are recognizable as such by appearance or function; or  | Anbotek Anbotek Anbo | N PS                 |
| oto. p   | Are marked with symbol 13   | Anbolic And Motek A  | Noote <sup>M</sup> N |
| nboten   | Guards are not removable without TOOL   | Anboter And Antek    | Nodi                 |
| 10.2     | Temperatures of windings  | et Anbotes And atek  | Anuotek              |
| Anboter  | Limits not exceeded in:   | otek Anboten Anb     | nbot                 |
| Anbo     | NORMAL CONDITION  | hotek Anboten Anbu   | P                    |
| rek pi   | SINGLE FAULT CONDITION  | hotek Anbotek Anbo   | P                    |
| 10.3     | Other temperature measurements  | (see appended table) | Р                    |
| enzhen A | Following measurements conducted if applicable:<br>nbotek Compliance Laboratory Limited                           | Anbotek Anbotek      | Anbo                 |



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| Clause      | Requirement – Test   | Result - Remark       | Verdict             |
|-------------|--|-----------------------|---------------------|
| Anboter     | Anti antionest Antion At not   | ak Anbole, And Ack    | anbotek             |
| Anbotek     | a) Value of 60 °C of field-wiring terminal box not exceeded                                    | otek Anbotek Anbo     | K Anbot             |
| Anbo        | <ul> <li>b) Surface of flammable liquids and parts in<br/>contact with this liquids</li> </ul> | mbotek Anbore An      | otek N pri          |
|             | c) Surface of non-metallic enclosures  | Anboten Anu stek      | poter P             |
| boten       | d) Parts made of insulating material supporting parts connected to mains supply                | Anbotek Anbo          | AnbotN              |
| 10.4        | Conduct of temperature test  | Anbor Ar hotek        | Pier                |
| 10.4.1      | Tests conducted under reference test conditions and manufacturer's instructions                | otek Anboild Anbotek  | Pubot               |
| 10.4.2      | Temperature measurement of heating equipment   | nboter Anno otek Anbo | nok N Ant           |
| er pro      | Tests conducted in test corner   | Anboten Anbo          | pote <sup>M</sup> N |
| 10.4.3      | Equipment intended for installation in a cabinet or wall                                       | Anbotek Anbotek       | AnboteN             |
| Anbo, Lotek | Equipment built in as specified in installation instructions                                   | Anboi Anbotek         | AntN                |
| 10.5        | Resistance to heat   | te Ant otek Anbotek   | Poo                 |
| 10.5.1      | Integrity of CLEARANCE and CREEPAGE<br>DISTANCES   | botek Anbotek Anbo    | Part                |
| 10.5.2      | Non-metallic ENCLOSURES  | An botek Anbotet An   | Р                   |
| otek        | Within 10 min after treatment:   | protek anbotek        | Pok                 |
| 10.5.3      | Insulating material  | And stek unbotek      | P                   |
| Anbote      | a) Parts supporting parts connected to MAINS supply  | notek Anbolek Anbolek | Р                   |
| K prob      | b) TERMINALS carrying a current more than 0.5 A  | hotek Anboreh Anbo    | Jek P               |
| otek p      | Examination of material data; or   | hotek anbotek An      | Р                   |
| wotek       | in case of doubt::   | hotek Anbotek         | bupo.               |
| no watek    | 1) Ball pressure test; or  | k hotek Anbotek       | Anton P rek         |
| Anu         | 2) Vicat softening testof ISO 306  | And tek obotek        | P                   |

| 11     | Protection against hazards from fluids                             |                     | nen Aup               |
|--------|--|---------------------|-----------------------|
| 11.1   | Protection to OPERATORS and surrounding area provided by EQUIPMENT | Anbolek Anbolek A   | Note <sup>k</sup> N F |
| abotek | All fluids specified by manufacturer considered                    | k sobotek Anbote    | P.M. N. tek           |
| 11.2   | Cleaning   | rek abotek Anbote   | N                     |
| 11.3   | Spillage   | p. Al abotek Anbote | N                     |
| 11.4   | Overflow   | Inbon At Anbo       | N And                 |
| 11.5   | Battery electrolyte  | Anborn phi botek Ar | poter P               |
| nborn  | Battery electrolyte leakage presents no hazard                     | Anboin Ann otek     | unboten N             |

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| Clause  | Requirement – Test  | Result - Remark          | Verdict   |
|---------|---|--------------------------|-----------|
| Anbore  | And atek anborek Anbor A  | ek Anbule Anu ustek      | anbotok   |
| 11.6    | Specially protected equipment   | otek Anboten Anbo        | N         |
| 11.7    | Fluid pressure and leakage  | Lotek anbotek Anbu       | alt the   |
| 11.7.1  | Maximum pressure  | Anti- stek unbotek Anbo  | - he      |
| botek   | Maximum pressure of any part does not exceed<br><i>P</i> <sub>RATED</sub>                                 | Antotek Antotek As       | hoose N   |
| 11.7.2  | Leakage and rupture at high pressure  | Anboten Anto-            | N         |
| Anbotek | Fluid containing parts subjected to hydraulic test if:  | otek Anbotek Anbotek     | N phote   |
| ek pr   | a) product of pressure and volume > 200 kPal;<br>and  | Anbotek Anbotek Anbot    | N Anto    |
| ootek   | b) pressure > 50 kPa  | h anbotek Anbote An      | N         |
| Anbotek | Parts of refrigerating systems meets pressure-<br>related requirements of IEC 60335-24 or IEC<br>60335-24 | Anbotek Anbotek          | Anborel   |
| 11.7.3  | Leakage from low-pressure parts   | stek unbotek Anbo        | N         |
| 11.7.4  | Overpressure safety device  | tek pobotek Anbor        | - Pin     |
| Jek.    | Does not operate in NORMAL USE  | Anbu tek nobotek Ant     | N         |
| Anbotek | a) Connected as close as possible to parts<br>intended to be protected                                    | Anborek Anborek          | unbol N   |
| Anbotek | b) Easy access for inspection, maintenance and repair   | lek Anborek Anbo         | Anbotek   |
| PUP     | c) Adjustment only with TOOL  | hooter Ante otek Antoote | NANDO     |
| Ani     | d) No discharge towards person  | Anbotes Anbo stek anb    | otek N PS |
| otel    | e) No HAZARD from deposit of discharged material  | Anbotek Anbo             | nbotek    |
| nboten  | f) Adequate discharge capacity  | anbotet Antion           | N         |
| Anbotek | No shut-off valve between overpressure safety device<br>and protected parts                               | ek Anbotek Anbotek       | Notek     |

| 12       | Protection against radiation, including laser sou<br>ultrasonic pressure | urces, and against sonic and | itek prib |
|----------|--|------------------------------|-----------|
| 12.1     | Equipment provides protection  | Ann Hotek Anboten A          | N         |
| 12.2     | Equipment producing ionizing radiation                                   | Anti- wotek Anbotek          | And N vek |
| 12.2.1   | Ionizing radiation   | And Lotek Anbotek            | P N       |
| 12.2.1.1 | Equipment meets the following requirements:                              | oren Anno otek Anbotek       | Napo      |
| otek Ar  | a) if intended to emit radiation meets requirements of 12.2.1.2; or      | nbotek Anbotek Anbo          | N AND     |
| nbotek   | tested, classified and marked in accordance to IEC 60405                 | Anbotek Anbotek A            | N         |

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| Clause     | Requirement – Test  | Result - Remark                     | Verdict                |
|------------|---|-------------------------------------|------------------------|
| anbotek    | Anbor Ar aborek Anbore Anu  | at pripotek pripo                   | A. botok               |
| Anbotek    | b) if only emits stray radiation meets requirements of 12.2.1.3   | otek Anbotek Anbotek                | N<br>Anbot             |
| 12.2.1.2   | Equipment intended to emit radiation  | mboles Anbo stek anbo               | N N N                  |
| Her An     | Effective dose rate of radiation measured   | Anbores Anbo                        | bote <sup>k</sup> N    |
| boten      | If dose rate exceeds 5 µSv/h marked with the following:   | Anbotek Anbotek                     | Anbo'N                 |
| Annu wotek | a) Symbol 17 (ISO 361)  | k wotek anbotek                     | N                      |
| PUD        | b) Abbreviations of the radionuclides   | plet And Lotek Anbotek              | N                      |
| burn       | c) With maximum dose at 1 m;or  | nbores Anti-                        | N Ant                  |
| potek pri  | with dose rate value between 1 µSv/h and 5 µSv/h in m   | Anbotek Anbotek Ar                  | pote <sup>k</sup> N    |
| 12.2.1.3   | Equipment not intended to emit radiation  | abotek Anboten                      | Any Nek                |
| Anbotek    | Limit for unintended stray radiation of 1 µSv/h at any easily reached point kept  | rak Anbotek Anbotek                 | Anbote                 |
| 12.2.2     | Accelerated electrons   | botek Anbot Att                     | K N Ant                |
| ek pup     | Compartments opened only by the use of aTOOL  | Anbotek Anbors An                   | otek N                 |
| 12.3       | Ultra-violet (UV) radiation   | Conformity test under consideration | unbote <sup>le</sup> v |
| Anbon      | No unintentional and HAZARDOUS escape of UV radiation:  | ek Anborek Anborek                  | AnbN                   |
| Antotel    | - checked by inspection; and  | stek snbotek Anbor                  | N                      |
| it who     | - evaluation of RISK assessment documentation   | otek unbotek Anbor                  | N                      |
| 12.4       | Microwave radiation   | Anti-                               | pt P                   |
| -tek       | Power density does not exceed 10 W/m <sup>2</sup> :   | Anbotek subotek                     | nbor Ny                |
| 12.5       | Sonic and ultrasonic pressure   | Anburget anboliek                   | Anbois                 |
| 12.5.1     | Sound level   | in Anboursek unbotek                | P.N.                   |
| Aupo       | No HAZARDOUS sound emission   | otek Anbo tek abote                 | N <sub>inbo</sub>      |
| otek Ar    | Maximum sound pressure level measured and calculated for maximum sound power level as specified in ISO 3746 or ISO 9614-1 | Anbotek Anbotek Anb                 | ne <sup>k</sup> N Ar   |
| nbotek     | Instruction describes measures for protection   | Anbotek Anbo                        | N N                    |
| 12.5.2     | Ultrasonic pressure   | 4 Antootet Antoo                    | N                      |
| Anbotek    | Equipment not intended to emit ultrasound does<br>not exceed limit of 110 dB between 20 kHz and<br>100 kHz                | otek Anbotek Anbotek Anbotek        | N Anbol                |
| tek pri    | Equipment intended to emit ultrasound:  | sabotek Anbota An                   | N votek                |
| ipotek .   | Outside useful beam does not exceed limit of 110 dB between 20 kHz and 100 kHz  | Anbotek Anbote A                    | Anboth                 |

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| Clause           | Requirement – Test                              | Result - Remark       | Verdict |
|------------------|---|-----------------------|---------|
| Anbo             | And atek anboten And ak wot                     | ek Anbour Antoniek    | anboten |
|                  | If inside useful beam above values exceeded:    | otek Anboten Anbo     | N       |
| - day            | Marked with Symbol 14 of Table 1                | Lotek Anbotek Anbo    | N       |
| rel <sup>k</sup> | and following information in the documentation: | hou stek hobotek Anbo | N       |
| Hek.             | a) dimensions of useful beam                    | And stek anbotek Ar   | N       |
| lon rek          | b) area where ultrasonic pressure exceed 110 dB | Anbo tek anbotek      | AnboiN  |
| Anbou            | c) maximum sound pressure inside beam area      | Anbo lek sobotek      | N       |
| 12.6             | Laser sources                                   | otek Anbor ek botek   | Nobos   |
| probo            | Equipment meets requirements of IEC 60825-1     | botek Anboin An       | × N d   |

| 13      | Protection against liberated gases, explosion a                                | nd implosion         | obotek               |
|---------|--|----------------------|----------------------|
| 13.1    | Poisonous and injurious gases and substances                                   | No injurious gases   | Nek                  |
| Anbotek | No poisonous or injurious gases or substances<br>liberated in NORMAL CONDITION | tek Anbotek Anbotek  | N N Anbote           |
| Anon    | Attached data/test reports demonstrate conformity                              | boter And stek unbot | N Anto               |
| 13.2    | Explosion and implosion  | Anboten Anb otek Ant | potek I              |
| 13.2.1  | Components   | Anboton Anbo         | unbotek.             |
| Anboten | Components liable to explode:  | Anboten Anbo         | Anbetek              |
| Anboten | Pressure release device provided; or   | lek Anboten Anbo     | Note                 |
| Anbot   | Apparatus incorporates OPERATOR protection (see also 7.7)                      | potek Anbotek Anbo   | K N Anbe             |
| Pu      | Pressure release device:   | Anbote Anti-         | ptek P               |
| oter    | Discharge without danger   | Anbote, And And      | nbotek               |
| nboten  | Cannot be obstructed   | Anboten Anti-        | N                    |
| 13.2.2  | Batteries and battery charging   | ak Anboten Andrek    | npotek               |
| Anbote  | If explosion or fire hazard could occur:                                       | otek Anboten Anbo    | - nbo                |
| k Anto  | Protection incorporated in the equipment; or                                   | hotek Anboten Anbo   | N                    |
| stek I  | Instructions specify batteries with built-in protection                        | Anbotek Anbotek Anb  | ibotek N             |
| nboto   | In case of wrong type of battery used:   | Anbole Ant Lotek     | anbotek              |
| Anboton | No HAZARD; or  | a Autorea Autor      | Notek                |
| Anboto  | Warning by marking and within instructions                                     | otek Anboter And     | Nnbo                 |
| Anbr    | Equipment with means to charge rechargeable batteries:                         | inbotek Anbotek Anbo | leik - pri           |
| botek   | Warning against the charging of non-rechargeable batteries; and                | Anboi Anbotek A      | lo <sup>oten</sup> N |

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|          | EN 61010-1   | Anboten Anbo          | nbotek                |
|----------|--|-----------------------|-----------------------|
| Clause   | Requirement – Test                                   | Result - Remark       | Verdict               |
| Anbo     | And stek antioner And ak both                        | ak Anbon All atek     | anbore                |
|          | Type of rechargeable battery indicated; or           | otek Anboten Anbo     | N                     |
| Anbo     | Symbol 14 used                                       | Lotek anbotek Anbo    | N                     |
| tek M    | Battery compartment design                           | how otek unbotek Anbo | N                     |
| otek     | Single component failure                             | And otek Anbotek A    | N                     |
| ib. stek | Polarity reversal test                               | And otek nabotek      | Anbon N               |
| 13.2.3   | Implosion of cathode ray tubes                       | No such device used   | Aupon                 |
| Anbo     | If maximum face dimensions > 160 mm:                 | oter And tek mbotek   | Hupor.                |
| PUPPO    | Intrinsically protected and correctly mounted; or    | hbotek Anbu tek nbo   | et N Anto             |
| ok pri   | ENCLOSURE provides protection:                       | Anboten Anbo tek      | po <sup>tek</sup> N p |
| potek    | If non-intrinsically protected:                      | Anbotek Anbot Lek     | obotek                |
| Anbotek  | Screen not removable without TOOL                    | Anbotek Anbou         | Net                   |
| abotek   | If glass screen, not in contact with surface of tube | ek nbotek Anbor       | Nuotel                |

| 14       | Components and subassemblies   |                        | P                  |
|----------|--|------------------------|--------------------|
| 14.1     | Where safety is involved, components meet relevant requirements  | Anbotek Anbotek Ar     | P                  |
| 14.2     | Motors   | Anbotek Anbo           | abovek             |
| 14.2.1   | Motor temperatures   | ek anbotek Anbo        | - abotek           |
| Anbote   | Does not present a HAZARD when stopped or prevented form starting; or  | potek Anbotek Anbo     | ek N Anbot         |
| botek I  | Protected by overtemperature or thermal protection device conform with 14.3                                    | Anbotek Anbotek An     | ostek N pot        |
| 14.2.2   | Series excitation motors   | An hotek Anboten       | print              |
| Anbotek  | Connected direct to device, if overspeeding causes a HAZARD  | ek Anbotek Anbotek     | Anbonek<br>Anbotek |
| 14.3     | Overtemperature protection devices   | otek Anboin Antonio    | Nnbote             |
| lek Anbr | Devices operating in a SINGLE FAULT CONDITION  | abotek Anbott An       | atek N anto        |
| botek p  | a) Reliable function is ensured  | abotek Anbote An       | woter N            |
| unbotekk | b) RATED to interrupt maximum current and voltage  | Anbotek Anbotek        | AnboiNe            |
| Anbor    | c) Does not operate in NORMAL USE  | at Aupor Ar abotek     | ArN                |
| ek Aupo  | If self-resetting device used to prevent aHAZARD,<br>protected part requires intervention before<br>restarting | nbotek Anborek Anbotek | e Nobore           |
| 14.4     | Fuse holders   | Anbotek Anbourtek      | potek N P          |
| nbotek   | No access to HAZARDOUS LIVE parts  | anbotek Anbo, P        | Ň                  |

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| Clause  | Requirement – Test  | Result - Remark        | Verdict              |
|---------|---|------------------------|----------------------|
| Anbore  | And otek Anbores Anbor ak short   | ek Anbors Ant          | anbotak              |
| 14.5    | Mains voltage selecting devices   | otek Anboten Anb       | N                    |
| Anbo    | Accidental change not possible  | Lotek Anbotek Anbo     | N                    |
| 14.6    | Mains transformers tested outside equipment                                 | knu untek anbotek Anbo | N                    |
| 14.7    | Printed wiring boards   | Ant niek anbotek A     | N                    |
| Anbotek | Data shows conformity with V-1 of IEC 60695-11-<br>10 or better; or         | Anbotek Anbotek        | AnborN<br>Anbotek    |
| Anboten | Test shows conformity with V-1 of IEC 60695-11-<br>10 or better             | otek Anbotek Anbotek   | N Anbote             |
| iek pri | Not applicable for printed wiring boards with limited-energy circuits (9.4) | anbotek Anbotek Anbo   | en N Anb             |
| 14.8    | Circuits or components used as TRANSIENT<br>OVERVOLTAGE limiting devices    | Anbotek Anbote An      | AnbolyN              |
| Anbor   | Test conducted between each pair of MAINS SUPPLY TERMINALS                  | ek Anbotek Anbotek     | AntNte               |
| Anbote  | No HAZARD resulting from rupture or overheating of the component:           | bolek Anbolek Anbor    | N Andr               |
| Put Put | - no bridging of safety relevant insulation                                 | Anboten Anboutek an    | ote <sup>k</sup> N P |
| otek    | - no heat to other parts above the self-ignition points                     | Anbotek Anbor Pr       | unbote N             |

| 15         | Protection by interlocks   |                     | PUPC      |
|------------|--|---------------------|-----------|
| 15.1       | Interlocks are designed to remove a hazard before OPERATOR exposed | botek Anbotek Anbot | Nenbor    |
| 15.2       | Prevention of reactivating   | hotek Anboten An    | N         |
| 15.3       | Reliability  | Ann hotek Anbotek   | Philoton  |
| prin -otek | Single fault unlikely to occur; or                                 | k sotek Anbotek     | And N tek |
| Pup        | Cannot cause a HAZARD  | Anno otek onbotek   | N         |

| 16      | HAZARDS resulting from application   | Anbote, Ant atek unb  | otek P Anb             |
|---------|--|-----------------------|------------------------|
| 16.1    | REASONABLY FORESEEABLE MISUSE  | Anboter Anbo otek     | hoote <sup>K</sup> N P |
| Anbotek | No hazards arising from setting not intended and not described in the instructions | Anbotek Anbotek       | AnboNK                 |
| Anbotel | Other cases of reasonable foreseeable misues addressed by risk assessment          | obtek Anbotek Anboten | Anbotel                |
| 16.2    | Ergonomic aspects  | abotek Anbote Ant     | lek P unbr             |
| otek p  | Factors giving rise to a HAZARD the RISK assessment is reflecting those aspects:   | Anborek Anbore And    | potek P                |
| nboten  | a) Limitation of body dimensions   | anboten Anbo          | P'obot                 |

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| .N-     | EN 61010-1   | An woten p                       | nbo                 |
|---------|--|----------------------------------|---------------------|
| Clause  | Requirement – Test   | Result - Remark                  | Verdict             |
| Anboit  | Annotek anboten Anbo   | ak Anbors Ann watek              | Anboret             |
| Anboten | b) Displays and indicators   | otek Anboten Anb                 | P                   |
| Anbot   | c) Accessibility and conventions of controls   | Lotek Anbotek Anbo               | P                   |
| et No   | d) Arrangements of TERMINALS   | how otek unbotek Anbo            | Р                   |
| HOK     | anbotek Anbor ak botek Anboter   | Ann stek anbotek A               | 100 N               |
| 7       | Risk assessment  | And sek abotek                   | Aupon-              |
| Anborek | Rish assessment conducted, if hazard might arise<br>and not covered by claused 6 to 16                             | Fully covered by clauses 6 to 16 | ► N                 |
| Aupotr  | Tolerable rish achieved by iterative documented process covering the following:                                    | hbotek Anbotek Anbo              | N N                 |
| s. Pu,  | a) RISK analysis   | Anbote And otek An               | po <sup>tek</sup> N |
| oter    | identify HAZARDS and estimate RISKS  | Anboten Anbo                     | obot N              |
| anboten | b) RISK evaluation   | Anboten Anbo                     | N                   |
| Anbotek | plan to judge acceptability of resulting risk level<br>based on the estimated severity and likelihood<br>of a rish | tek Anbolek Anbolek              | Noot                |
| k pinto | c) Rish reduction  | abotek Anbote Ans                | otek N              |
| otek p  | Initial risk reduced by counter measures:  | An Anbotek Anboten An            | N                   |
| nbotek  | Repeated risk evalution without new risks introduced   | Anbotek Anbotek                  | Anbonsk             |
| Anbors  | Risks remaining after risk assessment addressed in instruction to responsible body:                                | otek Anborek Anbotek             | N                   |
| - abr   | Information contained how to mitigate these rishs  | tek nbotek Anbor                 | N                   |
| stek p  | Following principles in methods of risk reduction applied by manufactuer in giver order:                           | Anbotek Anbotek Anb              | obotek              |
| hotek   | 1) RISKS eliminated or reduced as far as possible  | Anbotek Anbo                     | N                   |
| Anbotek | 2) Protective measures taken for risks that cannot be eliminated   | ek Anbotek Anbotek               | Anbote              |
| Anbo    | 3) User information about residual risk due to any defect of the protective measure                                | onotek Anbotek Anbotek           | N.nb                |
| et pr   | Indication of particular training is required  | hotek Anboten Anb                | N                   |
| botek.  | Specification of the need for personal protective equipment  | Ambotek Anbotek A                | N.                  |
| Anbotek | Conformity checked by evaluation of the risk assessment documentation  | ek probotek Anbotek              | ArNote              |
| DAYS    | 20° - 0°   | 0, bv, 56,                       | 100                 |

| ANNEA  | F ROUTINE TESTS            | anbo'     | pro-   | boter     | AND  |        |
|--------|----------------------------|-----------|--------|-----------|------|--------|
| lapro  | Manufacturer's declaration | ek sobote | Anbore | ATT Lotek | Anbr | ster N |
| 1-Olor | Any Ash                    | No.       | V LO   | DUCH      |      | 194    |

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| 4.4.2     | Table: Summary of single fault condtions                    |              |                | stek substek P  |
|-----------|---|--------------|----------------|---|
| Subclause | Titel   | Not<br>apply | Carried<br>out | Comments  |
| 4.4.2.1   | Single fault conditions not covered by 4.4.2.1 to 4.4.2.12  | Mer X        | Anbotek        | Anboten Anbot   |
| 4.4.2.2   | Protective impedance  | X            | Anboro         | Ante otek Ant   |
| 4.4.2.3   | Protective conductor  | botek        | Xinbo          | Ann-otek  |
| 4.4.2.4   | Equipment or parts for short-term or intermittent operation | X            | at pr          | poter Antonek   |
| 4.4.2.5   | Motors  | X pol        | John Lk        | Ann hotek - Anboten   |
| 4.4.2.6   | Capacitors  | X            | Anboro         | Anto Lotek Anbote   |
| 4.4.2.7   | Mains transformers  | botek        | Х              | k work and  |
| 4.4.2.8   | Outputs   | Anbotek      | X              | Short-circuit were<br>applied to all outputs.<br>No hazard. |
| 4.4.2.9   | Equipment for more than one supply                          | anto         | X              | Anbor tek abotek  |
| 4.4.2.10  | Cooling   | X            | nbotek         | Anbon ek Anborel  |
| 4.4.2.11  | Heating devices   | Х            | Anbotek        | Anbon An  |
| 4.4.2.12  | Insulation between circuits and parts                       | Х            | hote           | K Anbor An  |

| 5.1.3 c)   | TABLE: M       | AINS supply       |                |                 |                  | N               |
|------------|----------------|-------------------|----------------|-----------------|------------------|-----------------|
| Anboten    | Marked rati    | ng (V)            | No or a        | et a            | Anboten An       | p-<br>stek      |
| Anbote     | Number of      | phases            |                | Allinotek       | Anboten          | Anon            |
| Ant        | Frequency      | (Hz)              | ek pilbore     | All hotek       | Antoten          | Aupo            |
| tek        | Current (mA)   |                   |                |                 |                  |                 |
| Lotek      | Power (W).     | Ambo              | anti anti      | Ante Ante       | otek - Anbot     | el <sup>k</sup> |
| wotek.     | Power (VA)     | )                 |                | unbore: Am      | wotek - Ant      | ootek           |
| Test<br>No | Voltage<br>(V) | Frequency<br>(Hz) | Current<br>(A) | Power in<br>(W) | Power in<br>(VA) | Comments        |
| 100        | and - May      | to be             | - woton        | anbo            |                  | 4 - 10de        |

| 5.3                       | TABLE: [        | Durability | of marking |           |     | 1                     | P        |       |
|---------------------------|-----------------|------------|------------|-----------|-----|-----------------------|----------|-------|
| Marking method (see note) |                 |            |            | Agent     |     |                       |          |       |
| 1) Adhe                   | esive label     | otek       | anbotek    | Anbois A  | A   | Water                 | otek     | anbot |
| 2) Ink p                  | orinted         | hotek      | Anbotek    | Anbo      | В   | Isopropyl alcohol 70% | hotek    | Ant   |
| 3) Lase                   | er marked       | botek      | Anbote     | Anbu otek | С   | (specify agent)       | Annobote | ŀ.    |
| 4) Filme                  | coated (plastic | foil contr | ol panel)  | oten Anu  | D N | (specify agent)       | Pro      | Hatek |

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| 346       |  | stic (moulded in)                        | - water                    | bol          |                            | cify agent)             | Ano              |  |
|-----------|--|--|----------------------------|--------------|----------------------------|-------------------------|------------------|--|
|           |  | oplicable include p<br>narking is fixed. | rint method, label m       | aterial, ir  | nk or pain                 | it type, fixing metho   | od, adhesive and |  |
|           |  | Marki                                    | ng location                |              | Marking method (see above) |                         |                  |  |
| Aupo      | - Ide  | ntification (5.1.2)                      | ote: Any                   |              | odek                       | Anbo                    | abotek Anbo      |  |
| Aupor     | - Ma   | ins supply (5.1.3)                       | abore pro-                 |              | Thotek                     | Anbour                  | abotek An        |  |
| ek An     | - Fus  | ses (5.1.4)                              | pabotes Ano                |              | anbotel                    | Anbo, wak               | An abotek        |  |
| botek     | - Terminals, connections and operating devices (5.1.5) |  |                            |              |                            | otek Anboi              | Anbotek          |  |
| Antonotek | - Sw   | itches and circuit-b                     | oreakers (5.1.6)           | Anbore       | P                          | no untek anbo           | tek Anbois       |  |
| Ano       | - Doi  | uble/reinforced equ                      | uipment (5.1.7)            |              | p <sup>ser</sup>           | Anu otek M              | hbotek Anbo      |  |
| Ano       | - Field-wiring TERMINAL boxes (5.1.8)                  |  |                            |              | nboter                     | Anto                    | Anbotek Ant      |  |
| an Ant    | - Wa   | rning markings (5.                       | 2)                         |              | 1 Anboter                  | Anoustek                | anbotek          |  |
| Metho     | d  | Test agent                               | Remains legible<br>Verdict | Label<br>Ver | loose<br>dict              | Curled edges<br>Verdict | Comments         |  |
| Anbor     | by,  | A, B                                     | P                          | note         | 5 p3                       | P                       | ek Bipote        |  |

| 6   | Т                            | ABLE: Prote   | ection agai         | inst electr                                     | ic shock        | ζ.         |                   |                     |   | otek N pr                          |
|---|------------------------------|---|---------------------|---|-----------------|------------|-------------------|---------------------|---|------------------------------------|
| potek   | BI                           | ock diagram   | of the syst         | em  | Pupa            |            | nootel            | Anbo                |   |                                    |
| nbotek  | Po                           | ollution degre  | ee                  | Luboter.  |                 |            | 3                 | Hek An              | borb  |                                    |
| abotek  | 0                            | vervoltage in   | stallation c        | ategory   | (e <sup>r</sup> | Anbo :     | Ш                 | botek               | Anboro  |                                    |
| Location  |                              | Insulation<br>type  | Max.<br>working     | Cree  | page dis        | tance (no  | te 3)             | Clearan<br>ce (note | Test<br>voltage                                   | Comments                           |
|   |                              | (note 1)  | voltage<br>(note 2) | PWB   | CTI Other       |            | CTI               | - 3)<br>mm          | (note 2)  |                                    |
| otek - 1  |                              | - Pr.   | notet-              | Anboter   | Pup             | *e¥        | obetek            | -Puppor             |   | notel4_                            |
| BI = BASI<br>DI = DOUI<br>PI = PRO <sup>-</sup><br>RI = Reinf | C IN:<br>BLE<br>TECT<br>orce | e of insulation<br>SULATION<br>INSULATIO<br>FIVE IMPED<br>d INSULATI<br>ntary INSUL | N<br>ANCE<br>ON     | IOTE 2 – <sup>-</sup><br><sup>2</sup> eak impul |                 | oltage (pr | ulse) (<br>(<br>I | CATEGORI            | ES (OVER<br>ES) or PO<br>which diffe<br>hown unde | VOLTAGE<br>LLUTION<br>r from these |

| 6.2    | TABLE: Deterr | nination of accessible | parts  | Р                     |
|--------|---------------|------------------------|--|-----------------------|
|        | Item          | Description            | Determination method   | Exception under 6.2.1 |
| Anbote | otek Anbotek  | Examination            | The jointed test finger<br>(see figure B.2) is applied<br>in every possible position | Anbole And            |

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| 6.5.2.4  | TABLE: Impedane     | ce of protective bondi | ng of plug-connected eq             | uipment       | Ň       |
|----------|---------------------|------------------------|-------------------------------------|---------------|---------|
| ACCESSIE | BLE part under test | Test current (A)       | Voltage attained after<br>1 min (V) | Result        |         |
| Anbor    | botek Ar            | boten Anto stek        | Anbotek - Anbot                     | hin thotels - | Anboten |
| Note(s): | k botek             | Anboten Anbo           | subotek Anbors                      | All shotek    | Anborr  |

| 6.5.2.5  | TABLE: Impedance<br>equipment | ce of prote | ctive bondi | ng of perm            | nanently              | connect            | ed      | ibotek N |
|----------|-------------------------------|-------------|-------------|-----------------------|-----------------------|--------------------|---------|----------|
| ACCESSIB | LE part under test            | Voltage a   | ttained (s) | Time for y below allo | voltage t<br>wable le | o drop<br>evels(s) | Res     | sult     |
| Althotek | -Anboten An                   | stek        | Anbotek     | Aupor                 | pr.                   | botek              | Anboten | Anba     |
| Note(s): | Anboten                       | Anburgek    | abotek      | Anbor                 | N-                    | Annotek            | Anboten | Anbo     |
| burger   | w woter                       | anbo        | P.          | to Ma                 | 00101                 | Bur                | N       | iek and  |

| 6.7  | TABLE:                         | Insulation | requiremen             | ts                  |                              |                                   | o <sup>oten</sup> N |
|--|--------------------------------|------------|------------------------|---------------------|------------------------------|-----------------------------------|---------------------|
| 8  | Resistance to mechanical stres |            |                        | ses                 | abotek Anbot                 | e. Ant wotek                      | <b>N</b> DOTEN      |
| 10.5.1 Integrity of CLEARANCES and CREEPAGE DI |                                |            |                        | STANCES             | poter Anu                    | N                                 |                     |
|  | Location                       |            | initial CRE<br>DISTANC |                     | Initial<br>CLEARANCE<br>(mm) | Maximum<br>working voltage<br>(V) | Comments            |
| 34 46  | potek P                        | unbo.      | photok-                | Anbote              | Anu otek                     | anbotek                           | rupo. M             |
| Note(s):                                       | Anbotek                        | Anbo       | , botel                | Anb                 | one Ann                      | ak Anbotek                        | Ambor               |
|  | cal tests,<br>∋ (N)            | Static     | Dy                     | rnamic              | Drop test,<br>normal         | Drop test, hand-<br>held          | Comments            |
| hotek-   | - Anbot                        | Pur        | unter A                | n <del>e</del> otek | Anbo                         | Jootek - Anbore                   | Annue               |
| Note(s):                                       | at antic                       | He. Pl     | -of                    | abotek              | Puppor                       | wotek anb                         | Pro Puo             |

| 6.8 TABL                 | E: Dielectric strength | tests for protection | against the spre | ad of fire P      |
|--------------------------|------------------------|----------------------|------------------|-------------------|
| Location                 | Working voltage<br>(V) | Test voltage (V)     | Result           | Comments          |
| Input to accessible part | e                      | DC 500V              | otek PAnbotek    | Anborek P Anborek |

| 6.10.2      | TABLE: Co       | rd anchora | ge tests  | 10.4    | ч. "Ур <sup>о"</sup> | pa. M          | A N         |
|-------------|-----------------|------------|-----------|---------|----------------------|----------------|-------------|
| Lo          | ocation         | Mass<br>kg | Pull<br>N | Verdict | Torque<br>Nm         | Verdict        | Comments    |
| Anbotek     | -Anbo           | in abotek  | pnb       | 540 P   | hotet - al           | nhotek - Anbu. | rek pootek  |
| Note(s): No | o cord provided | d no       | tek 1     | nbote   | Ann                  | anbotek Ant    | on hi hotel |

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| 8 TABLE   | : Resistance | to mechanic | al stresses          |                         |        | ibote <sup>k</sup> P |
|-----------|--------------|-------------|----------------------|-------------------------|--------|----------------------|
| Llocation | Static       | Dynamic     | Drop test,<br>normal | Drop test,<br>hand-held | Result | Comments             |
| Enclosure | sten And     | Pass        | botek - Anbe         | 10 - Pin-               | Pass   | And And              |

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 1           | TABLE: Protection a                   | gainst the s | pread of fire |                                      | Piek               |          |
|---------------|---------------------------------------|--------------|---------------|--------------------------------------|--------------------|----------|
| Item          | Source of hazard<br>considered (circu |              |               | Protection<br>method (9a,<br>9b, 9c) | Protection details | Comments |
| Plastic parts | Aupo,                                 | hotek        | Anboten       | 9a                                   | Anbotek Ar         | 100, bi. |
| Note(s):      | otek Anbola                           | Prot Potek   | Anboten       | Antheretek                           | abotek             | Anbor    |

| 9.3.1         | TABLE: Containment of fire within the equipmer                 | nt                    | PUL  |
|---------------|--|-----------------------|------|
| 14.7          | Printed wiring boards  | stek Anburget abotek  | Noon |
| Aupon         | Material tested:   | ibotek Anbo, tek abot |      |
| n Anto        | Generic name:  | Anbotek Anbo jek of   |      |
| stek p        | Material manufacturer:   | Anbotek Anbo. A.      |      |
| obotek        | Type designation:  | Anbotek Anbo          |      |
| anbotek       | Colour:  | ek Anbotek Anbo       |      |
| Anbotel       | Conditioning details   | otek unbotek Anbor    |      |
| Anbr<br>Hek A | Thickness (mm):  | 1 –<br>2 –<br>3 -     |      |
| Anbotek       | Duration of flaming after first application (s) :              | 1                     |      |
| Anbo<br>Anbo  | Duration of flaming plus glowing after second application (s): | 1 –<br>2 –<br>3 -     |      |
| Anbotek       | Specimen burns to holding clamp (Yes/No):                      | 1 -<br>2 -<br>3 -     |      |
| Anbor         | Cotton ignited (Yes/No):                                       | 1 –<br>2 –<br>3 -     |      |

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| Test details: 1 –Location; 2 – maximum vo<br>current (A); 4 – maximum power(VA); 4 –<br>circuit separation; 6 – decision(Yes/No); 7 | overload protection after 120s(A); 5 - |
|---|--|
|   | Commonito                              |
| 1 2 3 4   | 5 6 7                                  |
| Anton pin welk about pin -  | a wolter share pin wolt                |

| 9.5     | TABLE: Re  | TABLE: Requirements for equipment containing or using flammable liquids |           |            |   |  |  |
|---------|--|---|-----------|------------|---|--|--|
| Anborek | Test details: 1 –Type of liquid; 2 –flammable liquids (b. quantity); 3 – flammable liquids (containment); 4 – comments |   |           |            |   |  |  |
| 1       |  | 2   | 3         |            | 4 |  |  |
| V.      | hoten Ant  | n sek   | Anbors An | boten Anos |   |  |  |

| -otek               | Anboten     | Anbo             | abotek   | Anbort      | p.u.        | otek b              | nboten   | Ano               |
|---------------------|-------------|------------------|--|-------------|-------------|---------------------|----------|-------------------|
| 10                  | TABLE:      | Temperature n    | neasurements                                   |             |             |                     |          | Ante              |
| 10.1                | Surface     | temperature lim  | its – NORMAL COI                               | NDITION and | d / or sigi | NLE FAULT C         | ONDITION | P                 |
| 10.2                | Tempera     | ature of winding | S- NORMAL CONDI                                | TION and /  |             | FAULT CON           |          | N Anto            |
| 10.3                | Other ter   | mperature meas   | surements                                      | Lotek       | Anboton     | AUDA                | self is  | otek P A          |
| Operating           | conditions: | Normal workir    | ng   | -otek       | Anbote      | bup.                |          |                   |
| anbotek             | Frequen     | cy (Hz)          | pribotor                                       | Pure state  | - ant       | otek A              | upor     |                   |
| anbotek             | - 1/5 M     |                  | L Anboron                                      | 1. 1. 1. C  | 1           | hour 5              | ) min    |                   |
| anbote              | Voltage     | (V)              | stek suboter                                   | ······      | otek.       | anbotek             | Anbou    |                   |
| ik anbi             | 100         | MON PAR          | (°C)   | 10          | <b>28</b> ℃ | anboten             | Aupor    |                   |
| iote <sup>k</sup> A | maximur     |                  | location; 2 – mea<br>m + 40°C – Ta (°<br>nents |             |             |                     |          | anbotek<br>vootek |
| 1                   | l           | 2                | 3  | 4           | 1           | 5                   |          | 6                 |
| PCB                 | Anbo        | otek - Anbo      | 51.3   | 1(          | 00          | Anbotek P           | Anbors   | Anbot             |
| Terminal            | notek pr    | Anbotek Ar       | 50.7   | 12          | 20          | Anbole P            | ok por   | otek pril         |
| Button              | nbo botek   | Anbotek          | 43.5   | Motek 10    | 00 Anbote   | P                   | potek    | unbotek           |
| Transforme          | er Anbotek  | Anbola           | 67.6   | Anboten 13  | 30          | bote <sup>K</sup> P | Anbotek  | Anboro            |
| Internal wir        | re Anboi    | otek Anton       | 54.8   | 10          | )5          | Anbotek P           | Anbolon  | 6 Anbote          |
| Screen              | riek hu     | obotek - An      | 44.2   | otek 7      | 5 ootek     | Anbotes<br>P        | Arras    | otek - Ant        |
| Enclosure           | abotek      | Anbotek          | 42.5   | nootelt 12  | 20          | P                   | otek p   | nbotek I          |
| Note(s):            | ph. botek   | Anboten          | p.nb-  | anbotek     | Puppo       | - Aller             | abotek   | Anboten           |

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| 10.2                        | TABLE: Ten  | nperature of re                      | esistance met                   | hod tempera                | ature measure  | ments            | N      |
|-----------------------------|---|--------------------------------------|---------------------------------|----------------------------|--|------------------|--------|
| 4.4.2.7                     | MAINS Trans                                       | formers                              | ek anbotel                      | Aupor                      | tothe proof  | ek Aupon         | N      |
| 14.2.1                      | Motor tempe                                       | eratures                             | stek sab                        | Hok Anb                    | alt in   | ootek Ant        | N PX   |
| Operating c                 | conditions:                                       | nboten An                            | dek N                           | obotek I                   | uppor pr   | botek            | 1      |
| ,00'                        | Frequency (I                                      | Hz)                                  | Ann                             |                            | Anbor  | printbotek       |        |
| Anbol                       | Duration (h,                                      | min)                                 | Anu                             |                            | hour   | min              |        |
| Aupon                       | Voltage (V).                                      | puboter.                             | And                             | i N                        | Anbor  | K bote           | 6      |
| Puppor                      | Ambient tem                                       | perature Ta₁ /T                      | a₂(℃)                           |                            | stek / Aube  | C(initial/final) | 63     |
| ek Anb                      |   | nts: 1 – part/des<br>7 – result; 8 – |                                 | R <sub>cold</sub> W; 3 – R | R <sub>warm</sub> W; 4 – Tr (                                      | K); 5 – T₅ (℃)   | nbotek |
| 1                           | 2   | 3                                    | 4                               | 5                          | 6  | 7                | 8      |
| Anu                         | obotek  | pupo.                                | - otok                          | Arboto.                    | prin tek   | abotek           | bropo. |
| (Tc= Tr - {<br>Note(s): 2 - | Ta2 – Ta1} +<br>- Indicate insu<br>- Record value | [40 °C or max<br>lation class (IE    | rated ambient]<br>C 85) under c | ); Tmax = m<br>omments (op | r = temperature<br>aximum permit<br>otional)<br>It condition in tl | ted temperatu    | Ire    |

| 10.5.2                            | TABLE: Resistance to   | heat of non-metallic enc                                       | osures                              | P P                   |
|-----------------------------------|--|--|-------------------------------------|-----------------------|
| Ann                               | Test method used:  | wet shotek Anb   | See below                           |                       |
| Aup                               | Non operative treatmen   | t  | . [V]                               | PAnb                  |
| Prop                              | Empty ENCLOSURE  | And the second second  | . [√]                               | o <sup>tek</sup> P F  |
| oter p                            | AV N   | and                        | 101                                 | nbotek                |
|                                   | Part   | Test temperature (°C)  | Duration (h, min)                   | Verdict               |
| Anboten                           | Enclosure  | 125  | antote 1h Ano stek                  | Botel                 |
| woler.                            | Dielectric strength test (   | (6.8)  | . 500 V r.m.s./peak/d.c             | Р                     |
|                                   | Dielectric strength test (   | (0.0)  | . 500 V T.III.S./peak/u.c           | 100                   |
| Note(s): No                       | o hazardous live parts shall   | N  | . 500 v T.III.S./peak/d.c           | itek p                |
| . Pro                             | 100 100  | l be accessible  | . 500 V T.III.S./peak/d.c           | tek A                 |
| 10.5.3                            | o hazardous live parts shall   | l be accessible  | . 500 V T.III.S./peak/d.c           | Hek p                 |
| 10.5.3                            | o hazardous live parts shall<br>TABLE: Insulating mater<br>Ball pressure test                                    | l be accessible  | 2 mm                                | tek A                 |
| 10.5.3                            | o hazardous live parts shall<br>TABLE: Insulating mater<br>Ball pressure test                                    | l be accessible<br>ials  | Anbotek Anbotek Anbotek Anbotek abc | tek A                 |
| 10.5.3                            | o hazardous live parts shall<br>TABLE: Insulating mater<br>Ball pressure test<br>Max. allowed impression         | l be accessible<br>ials<br>n diameter                          | 2 mm                                | P<br>P<br>            |
| Note(s): No<br>10.5.3<br>10.5.3a) | o hazardous live parts shall<br>TABLE: Insulating mater<br>Ball pressure test<br>Max. allowed impression<br>Part | l be accessible<br>ials<br>n diameter<br>Test temperature (°C) | 2 mm<br>Impression Diameter (mm)    | P<br>P<br><br>Verdict |

Note(s): No hazardous live parts shall be accessible

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| 10.5.3   | TABLE: Insulating mate   | rials                  |                          | hbote <sup>K</sup> N |
|----------|--------------------------|------------------------|--------------------------|----------------------|
| 10.5.3b) | Vicat softening test (IS | O 306)                 | Anboten Anbo             | N                    |
|          | Part                     | Vicat temperature (°C) | Thickness of sample (mm) | Verdict              |
| Anbotek  | Aupo rek opc             | rek Anbote Ano         | otek anbotek Anbu        | n - nbote            |
| Note(s): | rek Anbo. A.             | hotek Anbote An        | hotek Anbotek Anbo       | welt ant             |

| 11      | TABLE: Protection against hazards from fluids  |           |        |        |          |     |   | N <sup>-</sup> N |  |
|---------|--|-----------|--------|--------|----------|-----|---|------------------|--|
| Anbotek | Measurements: 1 – location; 2 – cleaning; 3 – spillage; 4 – overflow; 5 – equipment plus liquid; 6 – working voltage (V); 7 – test voltage (V); 8 – result; 9 – comments |           |        |        |          |     |   |                  |  |
| 1       | 2  | 3         | 4      | 5      | 6        | 7   | 8 | 9                |  |
| Bup     | - Ko   | hotek - P | abon - | Hote . | unboter. | And |   | 4 <u>- p</u> 3   |  |

11.7.2 TABLE: Leakage and rupture at high pressure Ν Part Test pressure Leakage test Burst test Comments Maximum permissible (Mpa) Yes / No Yes / No working pressure (Mpa) <u>. 18</u> -- 162 40 ------Note(s): 11.7.3 **TABLE:** Leakage from low-pressure parts N Measurements: 1 - ; 2 - (Pa); 3 -; 4 -Part Test pressure Leakage (Yes/No) Comments 10 DS. τċ. Note(s):

| - allor  | 201          | -at                             |                               | Per-         | 10 C     | 100 C                                     | ARY     |          | May   |
|----------|--------------|---------------------------------|-------------------------------|--------------|----------|---|---------|----------|-------|
| 12.2.1   | TABLE: Ioni  | zing radiati                    | ion                           |              |          |   |         | ۶Ň       |       |
| Lo       | ocation      | Measure                         | Measured values µSv/h Verdict |              | t Cor    |   | omments |          |       |
| e Pubr   | Jek ubr      | Net pr                          | ipoin bui                     | hotek        | Anboten  | AUDA                                      | Hok     | unto tek | pinto |
| Note(s): | po sek       | obotek                          | Anboro A                      | hote         | K Anbote | Ant Ant                                   | Hek     | nbotek   | 1     |
| 12.5.1   | TABLE: Sou   | TABLE: Sound level measurements |                               |              |          |   |         | N        | 8     |
| Location |              |                                 | Measured values dBA           |              |          | Calculated maximum sour<br>pressure level |         |          | b     |
| Pur      | ek - Aupoter | Pupe                            | set sob                       | ote <u>k</u> | Anboro   | Pur                                       | e preje | oter pi  | up.   |
| Note(s): | otek Anbo    | tex pul                         | atek ha                       | abotek       | Anboro   | A M                                       | otek    | nbotek   | Pup.  |
| 12.5.2   | TABLE: Ultra | asonic pres                     | ssure measur                  | ements       | i        |   |         | looten N | P     |
| Lo       | ocation      |                                 | Measured v                    | alues        |          |   | Comme   | nts      |       |

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|          |           | dE      | 3      | kHz       |         |      |          |
|----------|-----------|---------|--------|-----------|---------|------|----------|
| nboten   | anbu stek | Anbotek | Anbors | All notek | Anboten | And  | anborek. |
| Note(s): | Anbu      | anbotek | Anbor  | Arr hotek | Anboten | Anbu | nbotek   |

| 13.2.2   | TABLE: Batteries tests   | 5  |           |          |                 | 16.   | N      |
|----------|--------------------------|--|-----------|----------|-----------------|-------|--------|
| Helt M   | Battery load and chargin | ng circuit diagram:  | Ant Lotek | anbote   | W Aupr          |       |        |
| otek     | Battery type             | pobote :   | Anu       | K ant    | otek A          |       |        |
| no-      | Battery manufacturer     | poboter :  | Ann       | otek .   | nbotek          |       |        |
| Ano      | Battery model            | and the second s | And       | otek     | Anbotek         |       |        |
| Ano      | Battery catalogue No     |  | pter p    | Ind-     | Anbotek         |       |        |
| Anb      | Battery ratings          |  | nboten    | Anbo     | t sobo          |       |        |
| len bu   | Reverse polarity instalm | ent test   | Anboten   | Anbu     | Jek N           | potek | N p    |
| Single   | e component failures     |  | Verdi     | ict      |                 |       |        |
|          | Component                | Open circuit, result   | t         | Sh       | ort circuit, re | esult |        |
| Anbotek  | Anbo hek abo             | at Anboro Ano  | otek b    | nbotek   | Anbo rek        |       | abotek |
| Note(s): | ek Anbors And            | otek Anboren Anb   | . et      | - abotek | Pupore          |       |        |

# 14.1 TABLE: Components P Object/part No. Manufacturer/trad emark Type/model Technical data Mark(s) of conformity Image: State State

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

| 14.3           | TABLE: Overte  | emperature protection d | levices                         | Part N set  |
|----------------|--|-------------------------|---------------------------------|---|
| Reliability te | est:   |                         |                                 | · · · · · · · · · · · · · · · · · · ·                 |
| Corr           | nponent  | Type(see note)          | Verdict                         | Comments  |
| Pun            | otek unbole  | K Anbor At              | botek Anbote, Anu               | otek untotek An                                       |
| NR = non-re    | -self-resetting (10<br>esetting (1 time)<br>esetting (200 time | nb- otek Anbotek        | Anbotek Anbotek Anbotek Anbotek | Anbotek Anbotek<br>Anbotek Anbotek<br>Anbotek Anbotek |

| 14.6  | TABLE: Mains transformers tested outside equipment | Kelt N Anto |
|-------|--|-------------|
| oler. | Type:  |             |
| No.   | Manufacturer                                       |             |

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| ootek pr | Temperature protection class of the lowest RATED winding (class or maximum RATED temperature) .: | Anbote: Ano   | lok p            |
|----------|--|---------------|------------------|
|          | Winding identification   |               | boten            |
| Anotok   | Type of protector for winding:   | tek nbotek    | Anboten          |
|          |  | Short circuit | Over load        |
| K M      | Elapsed time:  | nbu 1s abotek | Is https://www.  |
| half.    | Current, primary (A):  | Anbor An abot | ok protocil      |
| - alt-   | Current, secondary (A):  | Anbor         | potek Hebote     |
| nbo,     | Winding temperature, primary (°C)  | Anbon pak     | abotek - Anbote  |
| Aupon    | Winding temperature, secondary ( $^{\circ}C$ ):  | tek hopon     | phi-botek Anbote |
| Pupo,    | Tissue paper/cheesecloth test:   | hotek -Anboi  | part Anbr        |
| Ant      | Voltage test:  | botek Anbor   | prin and         |

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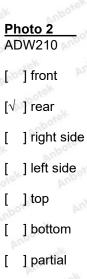
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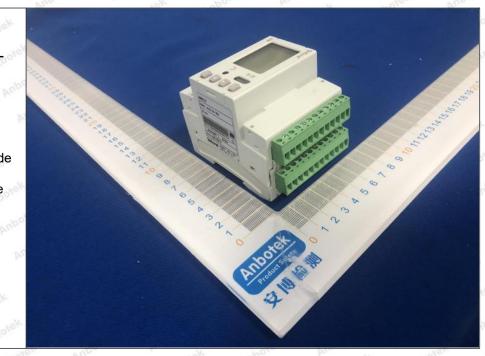


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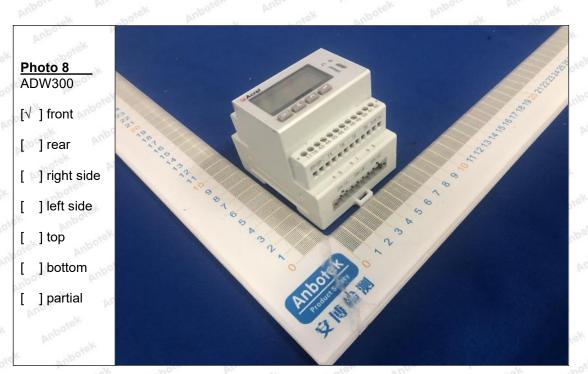
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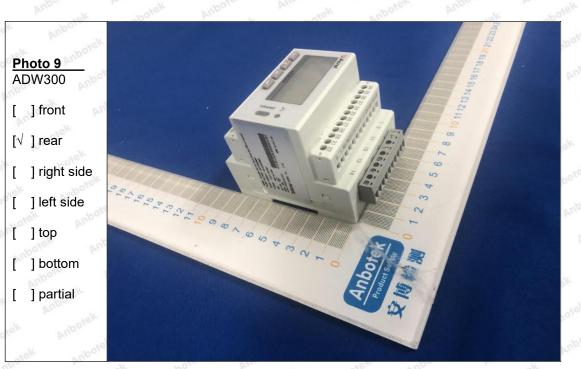
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