

**TEST REPORT**  
**IEC 60950-1**  
**Information technology equipment – Safety –**  
**Part 1: General requirements**

**Report Number**..... : SHES170700644901  
**Date of issue** ..... : 2017-08-28  
**Total number of pages** ..... : 38 pages

**Applicant's name** ..... : ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.  
**Address** ..... : No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

**Test specification:**

**Standard** ..... : IEC 60950-1:2005 (Second Edition) + Am 1:2009 + Am 2:2013  
**Test procedure**..... : SGS-CSTC  
**Non-standard test method**..... : N/A

**Test Report Form No.** ..... : IEC60950\_1F  
**Test Report Form(s) Originator**.... : SGS Fimko Ltd  
**Master TRF** ..... : Dated 2014-02

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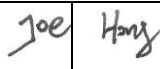

**This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.**

**General disclaimer:**

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

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|                                    |                                                                                                                     |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>Test item description</b> ..... | HDCVI CAMERA                                                                                                        |
| <b>Trade Mark</b> .....            |                                  |
| <b>Manufacturer</b> .....          | Same as applicant                                                                                                   |
| <b>Model/Type reference</b> .....  | See page 6.                                                                                                         |
| <b>Ratings</b> .....               | Input: 12V  , 0,25A<br>Class III |

|                                                 |                                          |                                                                                              |
|-------------------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------|
| <b>Testing procedure and testing location:</b>  |                                          |                                                                                              |
| <input checked="" type="checkbox"/>             | <b>Testing Laboratory:</b>               | SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.                                   |
| <b>Testing location/ address .....</b>          |                                          | 588 West Jindu Road, Xinqiao, Songjiang, 201612 Shanghai, China                              |
| <input type="checkbox"/>                        | <b>Associated CB Testing Laboratory:</b> |                                                                                              |
| <b>Testing location/ address .....</b>          |                                          |                                                                                              |
| <b>Tested by (name + signature) .....</b>       |                                          | Joe Hong   |
| <b>Approved by (name + signature) .....</b>     |                                          | Ice Feng  |
| <b>Testing procedure: TMP/CTF Stage 1:</b>      |                                          |                                                                                              |
| <b>Testing location/ address .....</b>          |                                          |                                                                                              |
| <b>Tested by (name + signature) .....</b>       |                                          |                                                                                              |
| <b>Approved by (name + signature) .....</b>     |                                          |                                                                                              |
| <b>Testing procedure: WMT/CTF Stage 2:</b>      |                                          |                                                                                              |
| <b>Testing location/ address .....</b>          |                                          |                                                                                              |
| <b>Tested by (name + signature) .....</b>       |                                          |                                                                                              |
| <b>Witnessed by (name + signature) .....</b>    |                                          |                                                                                              |
| <b>Approved by (name + signature) .....</b>     |                                          |                                                                                              |
| <b>Testing procedure: SMT/CTF Stage 3 or 4:</b> |                                          |                                                                                              |
| <b>Testing location/ address .....</b>          |                                          |                                                                                              |
| <b>Tested by (name + signature) .....</b>       |                                          |                                                                                              |
| <b>Witnessed by (name + signature) .....</b>    |                                          |                                                                                              |
| <b>Approved by (name + signature) .....</b>     |                                          |                                                                                              |
| <b>Supervised by (name + signature) .....</b>   |                                          |                                                                                              |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>List of Attachments (including a total number of pages in each attachment):</b></p> <p>Attachment 1: 4 pages of Photos documents;</p> <p>Attachment 2: 18 pages of European group differences and national differences</p>                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                     |
| <p><b>Summary of testing:</b></p> <p>The sample(s) tested complies with the requirements of EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013.</p> <p>When determining the test conclusion, the Measurement Uncertainty of test has been considered.</p> <p>The equipment is supplied by approved external power supply which comply with the requirement of Limited Power Source.</p> <p>Unless otherwise specified, the EUT with model DH-HAC-HMW3200LP was selected as representative models for full testing.</p> <p>Heating test (4.5):<br/> Ta = 65°C (declared by manufacturer)<br/> T-type thermocouple used for temperature measurement.</p> |                                                                                                                                                                     |
| <p><b>Tests performed (name of test and test clause):</b></p> <p><input checked="" type="checkbox"/> 1. GENERAL</p> <p><input checked="" type="checkbox"/> 2. PROTECTION FROM HAZARDS</p> <p><input checked="" type="checkbox"/> 3. WIRING, CONNECTIONS AND SUPPLY</p> <p><input checked="" type="checkbox"/> 4. PHYSICAL REQUIREMENTS</p> <p><input checked="" type="checkbox"/> 5. ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS</p>                                                                                                                                                                                                                 | <p><b>Testing location:</b></p> <p>SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.</p> <p>588 West Jindu, Xinqiao, Songjiang, 201612 Shanghai, China</p> |
| <p><b>Summary of compliance with National Differences:</b></p> <p><b>List of countries addressed</b></p> <p>1. EU Group Differences (EN 60950-1: 2006 + A11: 2009 + A1: 2010 + A12: 2011 + A2: 2013)</p> <p>2. EU Special National Conditions, EU A-deviations: none ;</p> <p>The product fulfils the above requirements.</p>                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                     |

**Copy of marking plate: The artwork below may be only a draft. The use of certification marks on a product must be authorized by the respective Notional Certification Body that own these marks.**

HDCVI CAMERA   
DH-HAC-HMW3200LP  
12V $\overline{\text{=}}$  0.25A  
PAL/3m/2.1mm  
P/N: 1.0.01.12.15428  
  
S/N: 3H6602LCAP00001  
MADE IN CHINA  
ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.



Remark:

1. The marking plates for other models are of the same pattern.
2. The height of CE logo should not be less than 5mm, and height of WEEE logo should be not less than 7mm.

|                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Test item particulars..... :</b>                                                                  |                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Equipment mobility.....:</b>                                                                      | <input type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable<br><input checked="" type="checkbox"/> stationary <input type="checkbox"/> for building-in <input type="checkbox"/> direct plug-in                                                                                                                             |
| <b>Connection to the mains.....:</b>                                                                 | <input type="checkbox"/> pluggable equipment <input type="checkbox"/> type A <input type="checkbox"/> type B<br><input type="checkbox"/> permanent connection<br><input checked="" type="checkbox"/> detachable power supply cord<br><input type="checkbox"/> non-detachable power supply cord<br><input checked="" type="checkbox"/> not directly connected to the mains |
| <b>Operating condition.....:</b>                                                                     | <input checked="" type="checkbox"/> continuous<br><input type="checkbox"/> rated operating / resting time:                                                                                                                                                                                                                                                                |
| <b>Access location .....</b>                                                                         | <input checked="" type="checkbox"/> operator accessible<br><input type="checkbox"/> restricted access location                                                                                                                                                                                                                                                            |
| <b>Over voltage category (OVC) .....</b>                                                             | <input type="checkbox"/> OVC I <input type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV<br><input checked="" type="checkbox"/> other: not directly connected to the mains                                                                                                                                                         |
| <b>Mains supply tolerance (%) or absolute mains supply values .....</b>                              | N/A                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Tested for IT power systems .....</b>                                                             | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                                                                                                                                                                                                                                                                                       |
| <b>IT testing, phase-phase voltage (V) .....</b>                                                     | N/A                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Class of equipment .....</b>                                                                      | <input type="checkbox"/> Class I <input type="checkbox"/> Class II <input checked="" type="checkbox"/> Class III <input type="checkbox"/> Not classified                                                                                                                                                                                                                  |
| <b>Considered current rating of protective device as part of the building installation (A) .....</b> | N/A                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Pollution degree (PD) .....</b>                                                                   | <input type="checkbox"/> PD 1 <input checked="" type="checkbox"/> PD 2 <input type="checkbox"/> PD 3                                                                                                                                                                                                                                                                      |
| <b>IP protection class .....</b>                                                                     | IPX0                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Altitude during operation (m) .....</b>                                                           | ≤ 2000                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Altitude of test laboratory (m) .....</b>                                                         | ≤ 100                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Mass of equipment (kg) .....</b>                                                                  | Appro. 0,16 kg                                                                                                                                                                                                                                                                                                                                                            |
| <b>Possible test case verdicts:</b>                                                                  |                                                                                                                                                                                                                                                                                                                                                                           |
| - test case does not apply to the test object.....:                                                  | N/A                                                                                                                                                                                                                                                                                                                                                                       |
| - test object does meet the requirement.....:                                                        | P (Pass)                                                                                                                                                                                                                                                                                                                                                                  |
| - test object does not meet the requirement.....:                                                    | F (Fail)                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Testing.....:</b>                                                                                 |                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Date of receipt of test item .....</b>                                                            | 2017-08-17                                                                                                                                                                                                                                                                                                                                                                |
| <b>Date (s) of performance of tests .....</b>                                                        | 2017-08-17 to 2017-08-21                                                                                                                                                                                                                                                                                                                                                  |

## General remarks:

"(see Enclosure #)" refers to additional information appended to the report.

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

Throughout this report a ☒ comma / ☐ point is used as the decimal separator.

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**Manufacturer's Declaration per sub-clause 4.2.5 of IEC 60335-1:**

The application for obtaining a CB Test Certificate includes more than one factory location and a declaration from the Manufacturer stating that the sample(s) submitted for evaluation is (are) representative of the products from each factory has been provided .....

☒ **Yes**  
☐ **Not applicable**

**When differences exist; they shall be identified in the General product information section.**

**Name and address of factory (ies) ..... :**

1. ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.  
No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China

2. ZHEJIANG DAHUA ZHILIAN CO.,LTD  
No.28, Dongqiao Road, Dongzhou Street, Fuyang District, Hangzhou, Zhejiang, P.R.China.

### General product information:

|                       |                                                                                                               |
|-----------------------|---------------------------------------------------------------------------------------------------------------|
| Functions             | Class III type HDCVI CAMERA, which contains SELV circuit only and powered by 12V <u>---</u> , 0,25A.          |
| Material of enclosure | Plastic                                                                                                       |
| Model difference      | All models are identical except for sales area, pixel and marking differences which have no impact on safety. |

Model Name:

|                  |                  |               |               |
|------------------|------------------|---------------|---------------|
| DH-HAC-HMW3200LP | DH-HAC-HMW3200LN | HAC-HMW3200LP | HAC-HMW3200LN |
| DH-HAC-HMW3100LP | DH-HAC-HMW3100LN | HAC-HMW3100LP | HAC-HMW3100LN |
| DH-HAC-HDW1200LP | DH-HAC-HDW1200LN | HAC-HDW1200LP | HAC-HDW1200LN |

**Abbreviations used in the report:**


|                                      |             |                            |              |
|--------------------------------------|-------------|----------------------------|--------------|
| - normal conditions                  | <b>N.C.</b> | - single fault conditions  | <b>S.F.C</b> |
| - functional insulation              | <b>OP</b>   | - basic insulation         | <b>BI</b>    |
| - double insulation                  | <b>DI</b>   | - supplementary insulation | <b>SI</b>    |
| - between parts of opposite polarity | <b>BOP</b>  | - reinforced insulation    | <b>RI</b>    |

**Indicate used abbreviations (if any)**

| IEC 60950-1 |                                                                                                    |                             |            |
|-------------|----------------------------------------------------------------------------------------------------|-----------------------------|------------|
| Clause      | Requirement + Test                                                                                 | Result - Remark             | Verdict    |
| <b>1</b>    | <b>GENERAL</b>                                                                                     |                             | <b>P</b>   |
| <b>1.5</b>  | <b>Components</b>                                                                                  |                             | <b>P</b>   |
| 1.5.1       | General                                                                                            |                             | <b>P</b>   |
|             | Comply with IEC 60950-1 or relevant component standard                                             | (see appended tables 1.5.1) | <b>P</b>   |
| 1.5.2       | Evaluation and testing of components                                                               |                             | <b>P</b>   |
| 1.5.3       | Thermal controls                                                                                   |                             | <b>N/A</b> |
| 1.5.4       | Transformers                                                                                       |                             | <b>N/A</b> |
| 1.5.5       | Interconnecting cables                                                                             |                             | <b>N/A</b> |
| 1.5.6       | Capacitors bridging insulation                                                                     |                             | <b>N/A</b> |
| 1.5.7       | Resistors bridging insulation                                                                      |                             | <b>N/A</b> |
| 1.5.7.1     | Resistors bridging functional, basic or supplementary insulation                                   |                             | <b>N/A</b> |
| 1.5.7.2     | Resistors bridging double or reinforced insulation between a.c. mains and other circuits           |                             | <b>N/A</b> |
| 1.5.7.3     | Resistors bridging double or reinforced insulation between a.c. mains and antenna or coaxial cable |                             | <b>N/A</b> |
| 1.5.8       | Components in equipment for IT power systems                                                       | Class III equipment.        | <b>N/A</b> |
| 1.5.9       | Surge suppressors                                                                                  | No surge suppressor.        | <b>N/A</b> |
| 1.5.9.1     | General                                                                                            |                             | <b>N/A</b> |
| 1.5.9.2     | Protection of VDRs                                                                                 |                             | <b>N/A</b> |
| 1.5.9.3     | Bridging of functional insulation by a VDR                                                         |                             | <b>N/A</b> |
| 1.5.9.4     | Bridging of basic insulation by a VDR                                                              |                             | <b>N/A</b> |
| 1.5.9.5     | Bridging of supplementary, double or reinforced insulation by a VDR                                |                             | <b>N/A</b> |



| IEC 60950-1 |                                      |                            |         |
|-------------|--------------------------------------|----------------------------|---------|
| Clause      | Requirement + Test                   | Result - Remark            | Verdict |
| <b>1.6</b>  | <b>Power interface</b>               |                            | P       |
| 1.6.1       | AC power distribution systems        |                            | N/A     |
| 1.6.2       | Input current                        | (see appended table 1.6.2) | P       |
| 1.6.3       | Voltage limit of hand-held equipment | Not a hand-held equipment. | N/A     |
| 1.6.4       | Neutral conductor                    | Class III equipment.       | N/A     |

|            |                                                                               |                                                                                      |     |
|------------|-------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----|
| <b>1.7</b> | <b>Marking and instructions</b>                                               |                                                                                      | P   |
| 1.7.1      | Power rating and identification markings                                      |                                                                                      | P   |
| 1.7.1.1    | Power rating marking                                                          |                                                                                      | P   |
|            | Multiple mains supply connections.....:                                       |                                                                                      | N/A |
|            | Rated voltage(s) or voltage range(s) (V) .....                                | 12 V ===                                                                             | P   |
|            | Symbol for nature of supply, for d.c. only .....                              | ==                                                                                   | P   |
|            | Rated frequency or rated frequency range (Hz) ...:                            | Only d.c.                                                                            | N/A |
|            | Rated current (mA or A) .....                                                 | 0,25 A                                                                               | P   |
| 1.7.1.2    | Identification markings                                                       |                                                                                      | P   |
|            | Manufacturer's name or trade-mark or identification mark .....                |  | P   |
|            | Model identification or type reference .....                                  | Same as page 6 Model No.                                                             | P   |
|            | Symbol for Class II equipment only .....                                      | Class III equipment.                                                                 | N/A |
|            | Other markings and symbols .....                                              | The additional marking does not give rise to misunderstandings.                      | P   |
| 1.7.1.3    | Use of graphical symbols                                                      |                                                                                      | P   |
| 1.7.2      | Safety instructions and marking                                               | See below.                                                                           | P   |
| 1.7.2.1    | General                                                                       | The user manual contains necessary information.                                      | P   |
| 1.7.2.2    | Disconnect devices                                                            | Class III equipment.                                                                 | N/A |
| 1.7.2.3    | Overcurrent protective device                                                 | Class III equipment.                                                                 | N/A |
| 1.7.2.4    | IT power distribution systems                                                 |                                                                                      | N/A |
| 1.7.2.5    | Operator access with a tool                                                   | No tool used for access to operator access area.                                     | N/A |
| 1.7.2.6    | Ozone                                                                         | Not produce ozone.                                                                   | N/A |
| 1.7.3      | Short duty cycles                                                             |                                                                                      | N/A |
| 1.7.4      | Supply voltage adjustment .....                                               | No voltage adjustment.                                                               | N/A |
|            | Methods and means of adjustment; reference to installation instructions ..... |                                                                                      | N/A |
| 1.7.5      | Power outlets on the equipment .....                                          | No power outlet.                                                                     | N/A |

| IEC 60950-1 |                                                                                      |                                          |         |
|-------------|--------------------------------------------------------------------------------------|------------------------------------------|---------|
| Clause      | Requirement + Test                                                                   | Result - Remark                          | Verdict |
| 1.7.6       | Fuse identification (marking, special fusing characteristics, cross-reference) ..... | No mains fuse.                           | N/A     |
| 1.7.7       | Wiring terminals                                                                     |                                          | N/A     |
| 1.7.7.1     | Protective earthing and bonding terminals .....                                      | Class III equipment.                     | N/A     |
| 1.7.7.2     | Terminals for a.c. mains supply conductors                                           |                                          | N/A     |
| 1.7.7.3     | Terminals for d.c. mains supply conductors                                           |                                          | N/A     |
| 1.7.8       | Controls and indicators                                                              |                                          | N/A     |
| 1.7.8.1     | Identification, location and marking .....                                           | No control and indicator affects safety. | N/A     |
| 1.7.8.2     | Colours .....                                                                        | Safety is not involved.                  | N/A     |
| 1.7.8.3     | Symbols according to IEC 60417.....                                                  |                                          | N/A     |
| 1.7.8.4     | Markings using figures .....                                                         |                                          | N/A     |
| 1.7.9       | Isolation of multiple power sources .....                                            | No multiple power source.                | N/A     |
| 1.7.10      | Thermostats and other regulating devices .....                                       | No such device.                          | N/A     |
| 1.7.11      | Durability                                                                           | The marking withstands required tests.   | P       |
| 1.7.12      | Removable parts                                                                      | No removable parts.                      | N/A     |
| 1.7.13      | Replaceable batteries .....                                                          | No battery.                              | N/A     |
|             | Language(s) .....                                                                    |                                          | —       |
| 1.7.14      | Equipment for restricted access locations .....                                      | No such part.                            | N/A     |

|            |                                                                                       |                                                                          |          |
|------------|---------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------|
| <b>2</b>   | <b>PROTECTION FROM HAZARDS</b>                                                        |                                                                          | <b>P</b> |
| <b>2.1</b> | <b>Protection from electric shock and energy hazards</b>                              |                                                                          | <b>P</b> |
| 2.1.1      | Protection in operator access areas                                                   | Class III equipment, Supplied by SELV, no hazards voltage inside the EUT | P        |
| 2.1.1.1    | Access to energized parts                                                             |                                                                          | N/A      |
|            | Test by inspection .....                                                              |                                                                          | N/A      |
|            | Test with test finger (Figure 2A) .....                                               |                                                                          | N/A      |
|            | Test with test pin (Figure 2B) .....                                                  |                                                                          | N/A      |
|            | Test with test probe (Figure 2C) .....                                                | No TNV circuit                                                           | N/A      |
| 2.1.1.2    | Battery compartments                                                                  |                                                                          | N/A      |
| 2.1.1.3    | Access to ELV wiring                                                                  |                                                                          | N/A      |
|            | Working voltage ( $V_{peak}$ or $V_{rms}$ ); minimum distance through insulation (mm) | (see appended tables 2.10.2 and 2.10.5)                                  | —        |
| 2.1.1.4    | Access to hazardous voltage circuit wiring                                            |                                                                          | N/A      |
| 2.1.1.5    | Energy hazards .....                                                                  |                                                                          | N/A      |
| 2.1.1.6    | Manual controls                                                                       |                                                                          | N/A      |

| IEC 60950-1 |                                                          |                                               |         |
|-------------|----------------------------------------------------------|-----------------------------------------------|---------|
| Clause      | Requirement + Test                                       | Result - Remark                               | Verdict |
| 2.1.1.7     | Discharge of capacitors in equipment                     |                                               | N/A     |
|             | Measured voltage (V); time-constant (s)..... :           |                                               | —       |
| 2.1.1.8     | Energy hazards – d.c. mains supply                       | Not intended to connect to d.c. mains supply. | N/A     |
|             | a) Capacitor connected to the d.c. mains supply .. :     |                                               | N/A     |
|             | b) Internal battery connected to the d.c. mains supply : |                                               | N/A     |
| 2.1.1.9     | Audio amplifiers .....                                   |                                               | N/A     |
| 2.1.2       | Protection in service access areas                       |                                               | N/A     |
| 2.1.3       | Protection in restricted access locations                |                                               | N/A     |

|            |                                                     |                                                 |     |
|------------|-----------------------------------------------------|-------------------------------------------------|-----|
| <b>2.2</b> | <b>SELV circuits</b>                                |                                                 | P   |
| 2.2.1      | General requirements                                | Supplied by SELV circuits                       | P   |
| 2.2.2      | Voltages under normal conditions (V) .....          | Under SELV limit.                               | P   |
| 2.2.3      | Voltages under fault conditions (V) .....           |                                                 | N/A |
| 2.2.4      | Connection of SELV circuits to other circuits ..... | SELV circuits connected to other SELV circuits. | P   |

|            |                                                          |                 |     |
|------------|----------------------------------------------------------|-----------------|-----|
| <b>2.3</b> | <b>TNV circuits</b>                                      |                 | N/A |
| 2.3.1      | Limits                                                   | No TNV circuit. | N/A |
|            | Type of TNV circuits..... :                              |                 | —   |
| 2.3.2      | Separation from other circuits and from accessible parts |                 | N/A |
| 2.3.2.1    | General requirements                                     |                 | N/A |
| 2.3.2.2    | Protection by basic insulation                           |                 | N/A |
| 2.3.2.3    | Protection by earthing                                   |                 | N/A |
| 2.3.2.4    | Protection by other constructions .....                  |                 | N/A |
| 2.3.3      | Separation from hazardous voltages                       |                 | N/A |
|            | Insulation employed .....                                |                 | —   |
| 2.3.4      | Connection of TNV circuits to other circuits             |                 | N/A |
|            | Insulation employed .....                                |                 | —   |
| 2.3.5      | Test for operating voltages generated externally         |                 | N/A |

|            |                                 |                              |     |
|------------|---------------------------------|------------------------------|-----|
| <b>2.4</b> | <b>Limited current circuits</b> |                              | N/A |
| 2.4.1      | General requirements            | No limited current circuits. | N/A |

|       |                      |  |     |
|-------|----------------------|--|-----|
| 2.4.2 | Limit values         |  | N/A |
|       | Frequency (Hz) ..... |  | —   |

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|-------------|----------------------------------------------------------|-----------------|---------|
| Clause      | Requirement + Test                                       | Result - Remark | Verdict |
|             | Measured current (mA) .....                              |                 | —       |
|             | Measured voltage (V) .....                               |                 | —       |
|             | Measured circuit capacitance (nF or $\mu$ F) .....       |                 | —       |
| 2.4.3       | Connection of limited current circuits to other circuits |                 | N/A     |

|            |                                                                                                              |                          |     |
|------------|--------------------------------------------------------------------------------------------------------------|--------------------------|-----|
| <b>2.5</b> | <b>Limited power sources</b>                                                                                 |                          | N/A |
|            | a) Inherently limited output                                                                                 |                          | N/A |
|            | b) Impedance limited output                                                                                  |                          | N/A |
|            | c) Regulating network or IC current limiter, limits output under normal operating and single fault condition |                          | N/A |
|            | Use of integrated circuit (IC) current limiters                                                              |                          | N/A |
|            | d) Overcurrent protective device limited output                                                              |                          | N/A |
|            | Max. output voltage (V), max. output current (A), max. apparent power (VA) .....                             | (see appended table 2.5) | —   |
|            | Current rating of overcurrent protective device (A) .:                                                       |                          | —   |

|            |                                                                                                                                            |                      |     |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----|
| <b>2.6</b> | <b>Provisions for earthing and bonding</b>                                                                                                 |                      | N/A |
| 2.6.1      | Protective earthing                                                                                                                        | Class III equipment. | N/A |
| 2.6.2      | Functional earthing                                                                                                                        |                      | N/A |
|            | Use of symbol for functional earthing .....                                                                                                |                      | N/A |
| 2.6.3      | Protective earthing and protective bonding conductors                                                                                      |                      | N/A |
| 2.6.3.1    | General                                                                                                                                    |                      | N/A |
| 2.6.3.2    | Size of protective earthing conductors                                                                                                     |                      | N/A |
|            | Rated current (A), cross-sectional area ( $\text{mm}^2$ ), AWG .....                                                                       |                      | —   |
| 2.6.3.3    | Size of protective bonding conductors                                                                                                      |                      | N/A |
|            | Rated current (A), cross-sectional area ( $\text{mm}^2$ ), AWG .....                                                                       |                      | —   |
|            | Protective current rating (A), cross-sectional area ( $\text{mm}^2$ ), AWG.....                                                            |                      | —   |
| 2.6.3.4    | Resistance of earthing conductors and their terminations; resistance ( $\Omega$ ), voltage drop (V), test current (A), duration (min)..... |                      | N/A |
| 2.6.3.5    | Colour of insulation .....                                                                                                                 |                      | N/A |
| 2.6.4      | Terminals                                                                                                                                  |                      | N/A |
| 2.6.4.1    | General                                                                                                                                    |                      | N/A |

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|-------------|------------------------------------------------------------------------------------|-----------------|---------|
| Clause      | Requirement + Test                                                                 | Result - Remark | Verdict |
| 2.6.4.2     | Protective earthing and bonding terminals                                          |                 | N/A     |
|             | Rated current (A), type, nominal thread diameter (mm)..... :                       |                 | —       |
| 2.6.4.3     | Separation of the protective earthing conductor from protective bonding conductors |                 | N/A     |
| 2.6.5       | Integrity of protective earthing                                                   |                 | N/A     |
| 2.6.5.1     | Interconnection of equipment                                                       |                 | N/A     |
| 2.6.5.2     | Components in protective earthing conductors and protective bonding conductors     |                 | N/A     |
| 2.6.5.3     | Disconnection of protective earth                                                  |                 | N/A     |
| 2.6.5.4     | Parts that can be removed by an operator                                           |                 | N/A     |
| 2.6.5.5     | Parts removed during servicing                                                     |                 | N/A     |
| 2.6.5.6     | Corrosion resistance                                                               |                 | N/A     |
| 2.6.5.7     | Screws for protective bonding                                                      |                 | N/A     |
| 2.6.5.8     | Reliance on telecommunication network or cable distribution system                 |                 | N/A     |

|            |                                                                   |                      |     |
|------------|-------------------------------------------------------------------|----------------------|-----|
| <b>2.7</b> | <b>Overcurrent and earth fault protection in primary circuits</b> |                      | N/A |
| 2.7.1      | Basic requirements                                                | Class III equipment. | N/A |
|            | Instructions when protection relies on building installation      |                      | N/A |
| 2.7.2      | Faults not simulated in 5.3.7                                     |                      | N/A |
| 2.7.3      | Short-circuit backup protection                                   |                      | N/A |
| 2.7.4      | Number and location of protective devices ..... :                 |                      | N/A |
| 2.7.5      | Protection by several devices                                     |                      | N/A |
| 2.7.6      | Warning to service personnel ..... :                              |                      | N/A |

|            |                                                                               |                       |     |
|------------|-------------------------------------------------------------------------------|-----------------------|-----|
| <b>2.8</b> | <b>Safety interlocks</b>                                                      |                       | N/A |
| 2.8.1      | General principles                                                            | No safety interlocks. | N/A |
| 2.8.2      | Protection requirements                                                       |                       | N/A |
| 2.8.3      | Inadvertent reactivation                                                      |                       | N/A |
| 2.8.4      | Fail-safe operation                                                           |                       | N/A |
|            | Protection against extreme hazard                                             |                       | N/A |
| 2.8.5      | Moving parts                                                                  |                       | N/A |
| 2.8.6      | Overriding                                                                    |                       | N/A |
| 2.8.7      | Switches, relays and their related circuits                                   |                       | N/A |
| 2.8.7.1    | Separation distances for contact gaps and their related circuits (mm) ..... : |                       | N/A |

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|-------------|------------------------|-----------------|---------|
| Clause      | Requirement + Test     | Result - Remark | Verdict |
| 2.8.7.2     | Overload test          |                 | N/A     |
| 2.8.7.3     | Endurance test         |                 | N/A     |
| 2.8.7.4     | Electric strength test |                 | N/A     |
| 2.8.8       | Mechanical actuators   |                 | N/A     |

|            |                                                 |                                                  |     |
|------------|-------------------------------------------------|--------------------------------------------------|-----|
| <b>2.9</b> | <b>Electrical insulation</b>                    |                                                  | P   |
| 2.9.1      | Properties of insulating materials              |                                                  | N/A |
| 2.9.2      | Humidity conditioning                           |                                                  | N/A |
|            | Relative humidity (%), temperature (°C) ..... : |                                                  | —   |
| 2.9.3      | Grade of insulation                             | Class III equipment. Only functional insulation. | P   |
| 2.9.4      | Separation from hazardous voltages              |                                                  | N/A |
|            | Method(s) used ..... :                          |                                                  | —   |

|             |                                                                        |                      |     |
|-------------|------------------------------------------------------------------------|----------------------|-----|
| <b>2.10</b> | <b>Clearances, creepage distances and distances through insulation</b> |                      | N/A |
| 2.10.1      | General                                                                | Class III equipment. | N/A |
| 2.10.1.1    | Frequency ..... :                                                      |                      | N/A |
| 2.10.1.2    | Pollution degrees ..... :                                              |                      | N/A |
| 2.10.1.3    | Reduced values for functional insulation                               |                      | N/A |
| 2.10.1.4    | Intervening unconnected conductive parts                               |                      | N/A |
| 2.10.1.5    | Insulation with varying dimensions                                     |                      | N/A |
| 2.10.1.6    | Special separation requirements                                        |                      | N/A |
| 2.10.1.7    | Insulation in circuits generating starting pulses                      |                      | N/A |
| 2.10.2      | Determination of working voltage                                       |                      | N/A |
| 2.10.2.1    | General                                                                | Class III equipment. | N/A |
| 2.10.2.2    | RMS working voltage                                                    |                      | N/A |
| 2.10.2.3    | Peak working voltage                                                   |                      | N/A |
| 2.10.3      | Clearances                                                             |                      | N/A |
| 2.10.3.1    | General                                                                |                      | N/A |
| 2.10.3.2    | Mains transient voltages                                               |                      | N/A |
|             | a) AC mains supply ..... :                                             |                      | N/A |
|             | b) Earthed d.c. mains supplies ..... :                                 |                      | N/A |
|             | c) Unearthed d.c. mains supplies ..... :                               |                      | N/A |
|             | d) Battery operation ..... :                                           |                      | N/A |

|          |                                  |  |     |
|----------|----------------------------------|--|-----|
| 2.10.3.3 | Clearances in primary circuits   |  | N/A |
| 2.10.3.4 | Clearances in secondary circuits |  | N/A |

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|-------------|---------------------------------------------------------------------------------|-----------------|---------|
| Clause      | Requirement + Test                                                              | Result - Remark | Verdict |
| 2.10.3.5    | Clearances in circuits having starting pulses                                   |                 | N/A     |
| 2.10.3.6    | Transients from a.c. mains supply .....                                         |                 | N/A     |
| 2.10.3.7    | Transients from d.c. mains supply .....                                         |                 | N/A     |
| 2.10.3.8    | Transients from telecommunication networks and cable distribution systems ..... |                 | N/A     |
| 2.10.3.9    | Measurement of transient voltage levels                                         |                 | N/A     |
|             | a) Transients from a mains supply                                               |                 | N/A     |
|             | For an a.c. mains supply .....                                                  |                 | N/A     |
|             | For a d.c. mains supply .....                                                   |                 | N/A     |
|             | b) Transients from a telecommunication network :                                |                 | N/A     |
| 2.10.4      | Creepage distances                                                              |                 | N/A     |
| 2.10.4.1    | General                                                                         |                 | N/A     |
| 2.10.4.2    | Material group and comparative tracking index                                   |                 | N/A     |
|             | CTI tests.....                                                                  |                 | —       |
| 2.10.4.3    | Minimum creepage distances                                                      |                 | N/A     |
| 2.10.5      | Solid insulation                                                                |                 | N/A     |
| 2.10.5.1    | General                                                                         |                 | N/A     |
| 2.10.5.2    | Distances through insulation                                                    |                 | N/A     |
| 2.10.5.3    | Insulating compound as solid insulation                                         |                 | N/A     |
| 2.10.5.4    | Semiconductor devices                                                           |                 | N/A     |
| 2.10.5.5.   | Cemented joints                                                                 |                 | N/A     |
| 2.10.5.6    | Thin sheet material – General                                                   |                 | N/A     |
| 2.10.5.7    | Separable thin sheet material                                                   |                 | N/A     |
|             | Number of layers (pcs) .....                                                    |                 | —       |
| 2.10.5.8    | Non-separable thin sheet material                                               |                 | N/A     |
| 2.10.5.9    | Thin sheet material – standard test procedure                                   |                 | N/A     |
|             | Electric strength test                                                          |                 | —       |
| 2.10.5.10   | Thin sheet material – alternative test procedure                                |                 | N/A     |
|             | Electric strength test                                                          |                 | N/A     |
| 2.10.5.11   | Insulation in wound components                                                  |                 | N/A     |
| 2.10.5.12   | Wire in wound components                                                        |                 | N/A     |
|             | Working voltage .....                                                           |                 | N/A     |
|             | a) Basic insulation not under stress .....                                      |                 | N/A     |
|             | b) Basic, supplementary, reinforced insulation .....                            |                 | N/A     |
|             | c) Compliance with Annex U .....                                                |                 | N/A     |
|             | Two wires in contact inside wound component; angle between 45° and 90° .....    |                 | N/A     |

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|-------------|----------------------------------------------------------------------------|-----------------|---------|
| Clause      | Requirement + Test                                                         | Result - Remark | Verdict |
| 2.10.5.13   | Wire with solvent-based enamel in wound components                         |                 | N/A     |
|             | Electric strength test                                                     |                 | —       |
|             | Routine test                                                               |                 | N/A     |
| 2.10.5.14   | Additional insulation in wound components                                  |                 | N/A     |
|             | Working voltage ..... :                                                    |                 | N/A     |
|             | - Basic insulation not under stress ..... :                                |                 | N/A     |
|             | - Supplementary, reinforced insulation ..... :                             |                 | N/A     |
| 2.10.6      | Construction of printed boards                                             |                 | N/A     |
| 2.10.6.1    | Uncoated printed boards                                                    |                 | N/A     |
| 2.10.6.2    | Coated printed boards                                                      |                 | N/A     |
| 2.10.6.3    | Insulation between conductors on the same inner surface of a printed board |                 | N/A     |
| 2.10.6.4    | Insulation between conductors on different layers of a printed board       |                 | N/A     |
|             | Distance through insulation                                                |                 | N/A     |
|             | Number of insulation layers (pcs) ..... :                                  |                 | N/A     |
| 2.10.7      | Component external terminations                                            |                 | N/A     |
| 2.10.8      | Tests on coated printed boards and coated components                       |                 | N/A     |
| 2.10.8.1    | Sample preparation and preliminary inspection                              |                 | N/A     |
| 2.10.8.2    | Thermal conditioning                                                       |                 | N/A     |
| 2.10.8.3    | Electric strength test                                                     |                 | N/A     |
| 2.10.8.4    | Abrasion resistance test                                                   |                 | N/A     |
| 2.10.9      | Thermal cycling                                                            |                 | N/A     |
| 2.10.10     | Test for Pollution Degree 1 environment and insulating compound            |                 | N/A     |
| 2.10.11     | Tests for semiconductor devices and cemented joints                        |                 | N/A     |
| 2.10.12     | Enclosed and sealed parts                                                  |                 | N/A     |

|            |                                           |                                                                                     |          |
|------------|-------------------------------------------|-------------------------------------------------------------------------------------|----------|
| <b>3</b>   | <b>WIRING, CONNECTIONS AND SUPPLY</b>     |                                                                                     | <b>P</b> |
| <b>3.1</b> | <b>General</b>                            |                                                                                     | <b>P</b> |
| 3.1.1      | Current rating and overcurrent protection | Adequate cross sectional areas on internal wiring.                                  | P        |
| 3.1.2      | Protection against mechanical damage      | The wires are routed away from sharp edges and parts which could damage insulation. | P        |
| 3.1.3      | Securing of internal wiring               |                                                                                     | P        |



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|-------------|------------------------------------------------|--------------------------------------------------|---------|
| Clause      | Requirement + Test                             | Result - Remark                                  | Verdict |
| 3.1.4       | Insulation of conductors                       |                                                  | N/A     |
| 3.1.5       | Beads and ceramic insulators                   | No such component.                               | N/A     |
| 3.1.6       | Screws for electrical contact pressure         |                                                  | N/A     |
| 3.1.7       | Insulating materials in electrical connections | No contact pressure through insulating material. | N/A     |
| 3.1.8       | Self-tapping and spaced thread screws          |                                                  | N/A     |
| 3.1.9       | Termination of conductors                      |                                                  | N/A     |
|             | 10 N pull test                                 |                                                  | N/A     |
| 3.1.10      | Sleeving on wiring                             |                                                  | N/A     |

|            |                                                                       |                      |     |
|------------|-----------------------------------------------------------------------|----------------------|-----|
| <b>3.2</b> | <b>Connection to a mains supply</b>                                   |                      | N/A |
| 3.2.1      | Means of connection                                                   | Class III equipment. | N/A |
| 3.2.1.1    | Connection to an a.c. mains supply                                    |                      | N/A |
| 3.2.1.2    | Connection to a d.c. mains supply                                     |                      | N/A |
| 3.2.2      | Multiple supply connections                                           |                      | N/A |
| 3.2.3      | Permanently connected equipment                                       |                      | N/A |
|            | Number of conductors, diameter of cable and conduits (mm) .....       |                      | —   |
| 3.2.4      | Appliance inlets                                                      |                      | N/A |
| 3.2.5      | Power supply cords                                                    |                      | N/A |
| 3.2.5.1    | AC power supply cords                                                 |                      | N/A |
|            | Type .....                                                            |                      | —   |
|            | Rated current (A), cross-sectional area (mm <sup>2</sup> ), AWG ..... |                      | —   |
| 3.2.5.2    | DC power supply cords                                                 |                      | N/A |
| 3.2.6      | Cord anchorages and strain relief                                     |                      | N/A |
|            | Mass of equipment (kg), pull (N) .....                                |                      | —   |
|            | Longitudinal displacement (mm) .....                                  |                      | —   |
| 3.2.7      | Protection against mechanical damage                                  |                      | N/A |
| 3.2.8      | Cord guards                                                           |                      | N/A |
|            | Diameter or minor dimension D (mm); test mass (g) .....               |                      | —   |
|            | Radius of curvature of cord (mm) .....                                |                      | —   |
| 3.2.9      | Supply wiring space                                                   |                      | N/A |
| <b>3.3</b> | <b>Wiring terminals for connection of external conductors</b>         |                      | N/A |
| 3.3.1      | Wiring terminals                                                      |                      | N/A |
| 3.3.2      | Connection of non-detachable power supply cords                       |                      | N/A |
| 3.3.3      | Screw terminals                                                       |                      | N/A |

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|-------------|-----------------------------------------------------------------------------------|-----------------|---------|
| Clause      | Requirement + Test                                                                | Result - Remark | Verdict |
| 3.3.4       | Conductor sizes to be connected                                                   |                 | N/A     |
|             | Rated current (A), cord/cable type, cross-sectional area (mm <sup>2</sup> ) ..... |                 | —       |
| 3.3.5       | Wiring terminal sizes                                                             |                 | N/A     |
|             | Rated current (A), type, nominal thread diameter (mm) .....                       |                 | —       |
| 3.3.6       | Wiring terminal design                                                            |                 | N/A     |
| 3.3.7       | Grouping of wiring terminals                                                      |                 | N/A     |
| 3.3.8       | Stranded wire                                                                     |                 | N/A     |

|            |                                                   |                      |     |
|------------|---------------------------------------------------|----------------------|-----|
| <b>3.4</b> | <b>Disconnection from the mains supply</b>        |                      | N/A |
| 3.4.1      | General requirement                               | Class III equipment. | N/A |
| 3.4.2      | Disconnect devices                                |                      | N/A |
| 3.4.3      | Permanently connected equipment                   |                      | N/A |
| 3.4.4      | Parts which remain energized                      |                      | N/A |
| 3.4.5      | Switches in flexible cords                        |                      | N/A |
| 3.4.6      | Number of poles - single-phase and d.c. equipment |                      | N/A |
| 3.4.7      | Number of poles - three-phase equipment           |                      | N/A |
| 3.4.8      | Switches as disconnect devices                    |                      | N/A |
| 3.4.9      | Plugs as disconnect devices                       |                      | N/A |
| 3.4.10     | Interconnected equipment                          |                      | N/A |
| 3.4.11     | Multiple power sources                            |                      | N/A |

|            |                                          |                                |     |
|------------|------------------------------------------|--------------------------------|-----|
| <b>3.5</b> | <b>Interconnection of equipment</b>      |                                | P   |
| 3.5.1      | General requirements                     | See below                      | P   |
| 3.5.2      | Types of interconnection circuits .....  | Only SELV circuits connection. | P   |
| 3.5.3      | ELV circuits as interconnection circuits | No ELV circuit.                | N/A |
| 3.5.4      | Data ports for additional equipment      |                                | N/A |

|            |                              |                     |     |
|------------|------------------------------|---------------------|-----|
| <b>4</b>   | <b>PHYSICAL REQUIREMENTS</b> |                     | P   |
| <b>4.1</b> | <b>Stability</b>             |                     | N/A |
|            | Angle of 10°                 | <7kg                | N/A |
|            | Test force (N) .....         | Not floor standing. | N/A |

|            |                            |                                 |     |
|------------|----------------------------|---------------------------------|-----|
| <b>4.2</b> | <b>Mechanical strength</b> |                                 | P   |
| 4.2.1      | General                    | Class III equipment. No hazard. | N/A |

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|-------------|----------------------------------------------------|-----------------|---------|
| Clause      | Requirement + Test                                 | Result - Remark | Verdict |
|             | Rack-mounted equipment.                            |                 | N/A     |
| 4.2.2       | Steady force test, 10 N                            |                 | N/A     |
| 4.2.3       | Steady force test, 30 N                            |                 | N/A     |
| 4.2.4       | Steady force test, 250 N                           |                 | N/A     |
| 4.2.5       | Impact test                                        |                 | N/A     |
|             | Fall test                                          |                 | N/A     |
|             | Swing test                                         |                 | N/A     |
| 4.2.6       | Drop test; height (mm) .....                       |                 | N/A     |
| 4.2.7       | Stress relief test                                 |                 | N/A     |
| 4.2.8       | Cathode ray tubes                                  |                 | N/A     |
|             | Picture tube separately certified .....            |                 | N/A     |
| 4.2.9       | High pressure lamps                                |                 | N/A     |
| 4.2.10      | Wall or ceiling mounted equipment; force (N) ..... | 50 N            | P       |

|            |                                                        |                                                            |          |
|------------|--------------------------------------------------------|------------------------------------------------------------|----------|
| <b>4.3</b> | <b>Design and construction</b>                         |                                                            | <b>P</b> |
| 4.3.1      | Edges and corners                                      | All edges and corners are rounded and smoothed.            | P        |
| 4.3.2      | Handles and manual controls; force (N) .....           | No such part.                                              | N/A      |
| 4.3.3      | Adjustable controls                                    | No adjustable control.                                     | N/A      |
| 4.3.4      | Securing of parts                                      |                                                            | N/A      |
| 4.3.5      | Connection by plugs and sockets                        | SELV connectors do not comply with IEC 60320 or IEC 60083. | P        |
| 4.3.6      | Direct plug-in equipment                               |                                                            | N/A      |
|            | Torque .....                                           |                                                            | —        |
|            | Compliance with the relevant mains plug standard ..... |                                                            | N/A      |
| 4.3.7      | Heating elements in earthed equipment                  |                                                            | N/A      |
| 4.3.8      | Batteries                                              | No battery.                                                | N/A      |
|            | - Overcharging of a rechargeable battery               |                                                            | N/A      |
|            | - Unintentional charging of a non-rechargeable battery |                                                            | N/A      |
|            | - Reverse charging of a rechargeable battery           |                                                            | N/A      |
|            | - Excessive discharging rate for any battery           |                                                            | N/A      |
| 4.3.9      | Oil and grease                                         |                                                            | N/A      |
| 4.3.10     | Dust, powders, liquids and gases                       |                                                            | N/A      |
| 4.3.11     | Containers for liquids or gases                        |                                                            | N/A      |
| 4.3.12     | Flammable liquids .....                                |                                                            | N/A      |

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|-------------|-------------------------------------------------------------------------|----------------------------------------------|---------|
| Clause      | Requirement + Test                                                      | Result - Remark                              | Verdict |
|             | Quantity of liquid (l) .....                                            |                                              | N/A     |
|             | Flash point (°C) .....                                                  |                                              | N/A     |
| 4.3.13      | Radiation                                                               | See below.                                   | P       |
| 4.3.13.1    | General                                                                 | No ionizing radiation.                       | P       |
| 4.3.13.2    | Ionizing radiation                                                      |                                              | N/A     |
|             | Measured radiation (pA/kg) .....                                        |                                              | —       |
|             | Measured high-voltage (kV) .....                                        |                                              | —       |
|             | Measured focus voltage (kV) .....                                       |                                              | —       |
|             | CRT markings .....                                                      |                                              | —       |
| 4.3.13.3    | Effect of ultraviolet (UV) radiation on materials                       |                                              | N/A     |
|             | Part, property, retention after test, flammability classification ..... |                                              | N/A     |
| 4.3.13.4    | Human exposure to ultraviolet (UV) radiation .....                      |                                              | N/A     |
| 4.3.13.5    | Lasers (including laser diodes) and LEDs                                |                                              | P       |
| 4.3.13.5.1  | Lasers (including laser diodes)                                         |                                              | N/A     |
|             | Laser class .....                                                       |                                              | —       |
| 4.3.13.5.2  | Light emitting diodes (LEDs)                                            | The LED is intended use as indicating light. | P       |
| 4.3.13.6    | Other types .....                                                       |                                              | N/A     |

|            |                                                    |                           |     |
|------------|----------------------------------------------------|---------------------------|-----|
| <b>4.4</b> | <b>Protection against hazardous moving parts</b>   |                           | N/A |
| 4.4.1      | General                                            | No hazardous moving part. | N/A |
| 4.4.2      | Protection in operator access areas .....          |                           | N/A |
|            | Household and home/office document/media shredders | (see Annex EE)            | N/A |
| 4.4.3      | Protection in restricted access locations .....    |                           | N/A |
| 4.4.4      | Protection in service access areas                 |                           | N/A |
| 4.4.5      | Protection against moving fan blades               |                           | N/A |
| 4.4.5.1    | General                                            |                           | N/A |
|            | Not considered to cause pain or injury. a).....:   |                           | N/A |
|            | Is considered to cause pain, not injury. b) .....  |                           | N/A |
|            | Considered to cause injury. c) .....               |                           | N/A |
| 4.4.5.2    | Protection for users                               |                           | N/A |
|            | Use of symbol or warning .....                     |                           | N/A |
| 4.4.5.3    | Protection for service persons                     |                           | N/A |
|            | Use of symbol or warning .....                     |                           | N/A |

|            |                             |  |   |
|------------|-----------------------------|--|---|
| <b>4.5</b> | <b>Thermal requirements</b> |  | P |
|------------|-----------------------------|--|---|

| IEC 60950-1 |                                           |                          |         |
|-------------|-------------------------------------------|--------------------------|---------|
| Clause      | Requirement + Test                        | Result - Remark          | Verdict |
| 4.5.1       | General                                   |                          | P       |
| 4.5.2       | Temperature tests                         | (see appended table 4.5) | P       |
|             | Normal load condition per Annex L ..... : | (see Annex L)            | —       |
| 4.5.3       | Temperature limits for materials          | (see appended table 4.5) | P       |
| 4.5.4       | Touch temperature limits                  | (see appended table 4.5) | P       |
| 4.5.5       | Resistance to abnormal heat ..... :       |                          | N/A     |

|            |                                                     |             |     |
|------------|-----------------------------------------------------|-------------|-----|
| <b>4.6</b> | <b>Openings in enclosures</b>                       |             | N/A |
| 4.6.1      | Top and side openings                               | No openings | N/A |
|            | Dimensions (mm) ..... :                             |             | —   |
| 4.6.2      | Bottoms of fire enclosures                          |             | N/A |
|            | Construction of the bottommm, dimensions (mm) .. :  |             | —   |
| 4.6.3      | Doors or covers in fire enclosures                  |             | N/A |
| 4.6.4      | Openings in transportable equipment                 |             | N/A |
| 4.6.4.1    | Constructional design measures                      |             | N/A |
|            | Dimensions (mm) ..... :                             |             | —   |
| 4.6.4.2    | Evaluation measures for larger openings             |             | N/A |
| 4.6.4.3    | Use of metallized parts                             |             | N/A |
| 4.6.5      | Adhesives for constructional purposes               |             | N/A |
|            | Conditioning temperature (°C), time (weeks) ..... : |             | —   |

|            |                                                                        |                                                                                                                         |     |
|------------|------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----|
| <b>4.7</b> | <b>Resistance to fire</b>                                              |                                                                                                                         | P   |
| 4.7.1      | Reducing the risk of ignition and spread of flame                      |                                                                                                                         | P   |
|            | Method 1, selection and application of components wiring and materials | Method 1 used.                                                                                                          | P   |
|            | Method 2, application of all of simulated fault condition tests        |                                                                                                                         | N/A |
| 4.7.2      | Conditions for a fire enclosure                                        | See below.                                                                                                              | P   |
| 4.7.2.1    | Parts requiring a fire enclosure                                       |                                                                                                                         | N/A |
| 4.7.2.2    | Parts not requiring a fire enclosure                                   | The equipment is supplied by approved external power adapter which comply with the requirement of Limited Power Source. | P   |
| 4.7.3      | Materials                                                              |                                                                                                                         | P   |

|         |                               |  |     |
|---------|-------------------------------|--|-----|
| 4.7.3.1 | General                       |  | P   |
| 4.7.3.2 | Materials for fire enclosures |  | N/A |

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|-------------|------------------------------------------------------------------|----------------------------|---------|
| Clause      | Requirement + Test                                               | Result - Remark            | Verdict |
| 4.7.3.3     | Materials for components and other parts outside fire enclosures |                            | N/A     |
| 4.7.3.4     | Materials for components and other parts inside fire enclosures  |                            | N/A     |
| 4.7.3.5     | Materials for air filter assemblies                              | No air filter.             | N/A     |
| 4.7.3.6     | Materials used in high-voltage components                        | No high-voltage component. | N/A     |

|            |                                                                                                                 |  |            |
|------------|-----------------------------------------------------------------------------------------------------------------|--|------------|
| <b>5</b>   | <b>ELECTRICAL REQUIREMENTS AND SIMULATED ABNORMAL CONDITIONS</b>                                                |  | <b>P</b>   |
| <b>5.1</b> | <b>Touch current and protective conductor current</b>                                                           |  | <b>N/A</b> |
| 5.1.1      | General                                                                                                         |  | N/A        |
| 5.1.2      | Configuration of equipment under test (EUT)                                                                     |  | N/A        |
| 5.1.2.1    | Single connection to an a.c. mains supply                                                                       |  | N/A        |
| 5.1.2.2    | Redundant multiple connections to an a.c. mains supply                                                          |  | N/A        |
| 5.1.2.3    | Simultaneous multiple connections to an a.c. mains supply                                                       |  | N/A        |
| 5.1.3      | Test circuit                                                                                                    |  | N/A        |
| 5.1.4      | Application of measuring instrument                                                                             |  | N/A        |
| 5.1.5      | Test procedure                                                                                                  |  | N/A        |
| 5.1.6      | Test measurements                                                                                               |  | N/A        |
|            | Supply voltage (V) .....                                                                                        |  | —          |
|            | Measured touch current (mA) .....                                                                               |  | —          |
|            | Max. allowed touch current (mA) .....                                                                           |  | —          |
|            | Measured protective conductor current (mA) .....                                                                |  | —          |
|            | Max. allowed protective conductor current (mA) ..                                                               |  | —          |
| 5.1.7      | Equipment with touch current exceeding 3,5 mA                                                                   |  | N/A        |
| 5.1.7.1    | General .....                                                                                                   |  | N/A        |
| 5.1.7.2    | Simultaneous multiple connections to the supply                                                                 |  | N/A        |
| 5.1.8      | Touch currents to telecommunication networks and cable distribution systems and from telecommunication networks |  | N/A        |
| 5.1.8.1    | Limitation of the touch current to a telecommunication network or to a cable distribution system                |  | N/A        |
|            | Supply voltage (V) .....                                                                                        |  | —          |
|            | Measured touch current (mA) .....                                                                               |  | —          |
|            | Max. allowed touch current (mA) .....                                                                           |  | —          |
| 5.1.8.2    | Summation of touch currents from telecommunication networks                                                     |  | N/A        |

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|-------------|----------------------------------------------------------------------------|-----------------|---------|
| Clause      | Requirement + Test                                                         | Result - Remark | Verdict |
|             | a) EUT with earthed telecommunication ports ..... :                        |                 | N/A     |
|             | b) EUT whose telecommunication ports have no reference to protective earth |                 | N/A     |

|            |                          |  |     |
|------------|--------------------------|--|-----|
| <b>5.2</b> | <b>Electric strength</b> |  | N/A |
| 5.2.1      | General                  |  | N/A |
| 5.2.2      | Test procedure           |  | N/A |

|            |                                                                 |                                                                                                 |     |
|------------|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----|
| <b>5.3</b> | <b>Abnormal operating and fault conditions</b>                  |                                                                                                 | P   |
| 5.3.1      | Protection against overload and abnormal operation              | (see appended table 5.3)                                                                        | N/A |
| 5.3.2      | Motors                                                          |                                                                                                 | N/A |
| 5.3.3      | Transformers                                                    |                                                                                                 | N/A |
| 5.3.4      | Functional insulation ..... :                                   | Complies with c).                                                                               | P   |
| 5.3.5      | Electromechanical components                                    | No such components.                                                                             | N/A |
| 5.3.6      | Audio amplifiers in ITE ..... :                                 |                                                                                                 | N/A |
| 5.3.7      | Simulation of faults                                            | See appended table 5.3.                                                                         | P   |
| 5.3.8      | Unattended equipment                                            |                                                                                                 | N/A |
| 5.3.9      | Compliance criteria for abnormal operating and fault conditions | See below.                                                                                      | P   |
| 5.3.9.1    | During the tests                                                | No fire occurred beyond the equipment, no molten metal emitted and no deformation of enclosure. | P   |
| 5.3.9.2    | After the tests                                                 |                                                                                                 | P   |

|            |                                                                                                                                                      |                                             |     |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|-----|
| <b>6</b>   | <b>CONNECTION TO TELECOMMUNICATION NETWORKS</b>                                                                                                      |                                             | N/A |
| <b>6.1</b> | <b>Protection of telecommunication network service persons, and users of other equipment connected to the network, from hazards in the equipment</b> |                                             | N/A |
| 6.1.1      | Protection from hazardous voltages                                                                                                                   |                                             | N/A |
| 6.1.2      | Separation of the telecommunication network from earth                                                                                               |                                             | N/A |
| 6.1.2.1    | Requirements                                                                                                                                         | No connection to telecommunication network. | N/A |
|            | Supply voltage (V) ..... :                                                                                                                           |                                             | —   |
|            | Current in the test circuit (mA) ..... :                                                                                                             |                                             | —   |
| 6.1.2.2    | Exclusions ..... :                                                                                                                                   |                                             | N/A |

|            |                                                                                      |  |     |
|------------|--------------------------------------------------------------------------------------|--|-----|
| <b>6.2</b> | <b>Protection of equipment users from overvoltages on telecommunication networks</b> |  | N/A |
|------------|--------------------------------------------------------------------------------------|--|-----|

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|-------------|----------------------------------|-----------------|---------|
| Clause      | Requirement + Test               | Result - Remark | Verdict |
| 6.2.1       | Separation requirements          |                 | N/A     |
| 6.2.2       | Electric strength test procedure |                 | N/A     |
| 6.2.2.1     | Impulse test                     |                 | N/A     |
| 6.2.2.2     | Steady-state test                |                 | N/A     |
| 6.2.2.3     | Compliance criteria              |                 | N/A     |

|            |                                                                           |  |     |
|------------|---------------------------------------------------------------------------|--|-----|
| <b>6.3</b> | <b>Protection of the telecommunication wiring system from overheating</b> |  | N/A |
|            | Max. output current (A) .....                                             |  | —   |
|            | Current limiting method .....                                             |  | —   |

|            |                                                                                                                                                         |  |     |
|------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|
| <b>7</b>   | <b>CONNECTION TO CABLE DISTRIBUTION SYSTEMS</b>                                                                                                         |  | N/A |
| <b>7.1</b> | <b>General</b>                                                                                                                                          |  | N/A |
| 7.2        | Protection of cable distribution system service persons, and users of other equipment connected to the system, from hazardous voltages in the equipment |  | N/A |
| 7.3        | Protection of equipment users from overvoltages on the cable distribution system                                                                        |  | N/A |
| 7.4        | Insulation between primary circuits and cable distribution systems                                                                                      |  | N/A |
| 7.4.1      | General                                                                                                                                                 |  | N/A |
| 7.4.2      | Voltage surge test                                                                                                                                      |  | N/A |
| 7.4.3      | Impulse test                                                                                                                                            |  | N/A |

|            |                                                                                                                                                  |  |     |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--|-----|
| <b>A</b>   | <b>ANNEX A, TESTS FOR RESISTANCE TO HEAT AND FIRE</b>                                                                                            |  | N/A |
| <b>A.1</b> | <b>Flammability test for fire enclosures of movable equipment having a total mass exceeding 18 kg, and of stationary equipment (see 4.7.3.2)</b> |  | N/A |
| A.1.1      | Samples .....                                                                                                                                    |  | —   |
|            | Wall thickness (mm).....                                                                                                                         |  | —   |
| A.1.2      | Conditioning of samples; temperature (°C) .....                                                                                                  |  | N/A |
| A.1.3      | Mounting of samples .....                                                                                                                        |  | N/A |
| A.1.4      | Test flame (see IEC 60695-11-3)                                                                                                                  |  | N/A |
|            | Flame A, B, C or D .....                                                                                                                         |  | —   |
| A.1.5      | Test procedure                                                                                                                                   |  | N/A |
| A.1.6      | Compliance criteria                                                                                                                              |  | N/A |
|            | Sample 1 burning time (s).....                                                                                                                   |  | —   |
|            | Sample 2 burning time (s).....                                                                                                                   |  | —   |



| IEC 60950-1 |                                                                                                                                                                                                     |                 |         |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------|
| Clause      | Requirement + Test                                                                                                                                                                                  | Result - Remark | Verdict |
|             | Sample 3 burning time (s)..... :                                                                                                                                                                    |                 | —       |
| <b>A.2</b>  | <b>Flammability test for fire enclosures of movable equipment having a total mass not exceeding 18 kg, and for material and components located inside fire enclosures (see 4.7.3.2 and 4.7.3.4)</b> |                 | N/A     |
| A.2.1       | Samples, material .....                                                                                                                                                                             |                 | —       |
|             | Wall thickness (mm)..... :                                                                                                                                                                          |                 | —       |
| A.2.2       | Conditioning of samples; temperature (°C) .....                                                                                                                                                     |                 | N/A     |
| A.2.3       | Mounting of samples .....                                                                                                                                                                           |                 | N/A     |
| A.2.4       | Test flame (see IEC 60695-11-4)                                                                                                                                                                     |                 | N/A     |
|             | Flame A, B or C .....                                                                                                                                                                               |                 | —       |
| A.2.5       | Test procedure                                                                                                                                                                                      |                 | N/A     |
| A.2.6       | Compliance criteria                                                                                                                                                                                 |                 | N/A     |
|             | Sample 1 burning time (s)..... :                                                                                                                                                                    |                 | —       |
|             | Sample 2 burning time (s)..... :                                                                                                                                                                    |                 | —       |
|             | Sample 3 burning time (s)..... :                                                                                                                                                                    |                 | —       |
| A.2.7       | Alternative test acc. to IEC 60695-11-5, cl. 5 and 9                                                                                                                                                |                 | N/A     |
|             | Sample 1 burning time (s)..... :                                                                                                                                                                    |                 | —       |
|             | Sample 2 burning time (s)..... :                                                                                                                                                                    |                 | —       |
|             | Sample 3 burning time (s)..... :                                                                                                                                                                    |                 | —       |
| <b>A.3</b>  | <b>Hot flaming oil test (see 4.6.2)</b>                                                                                                                                                             |                 | N/A     |
| A.3.1       | Mounting of samples                                                                                                                                                                                 |                 | N/A     |
| A.3.2       | Test procedure                                                                                                                                                                                      |                 | N/A     |
| A.3.3       | Compliance criterion                                                                                                                                                                                |                 | N/A     |

|            |                                                                               |  |     |
|------------|-------------------------------------------------------------------------------|--|-----|
| <b>B</b>   | <b>ANNEX B, MOTOR TESTS UNDER ABNORMAL CONDITIONS (see 4.7.2.2 and 5.3.2)</b> |  | N/A |
| <b>B.1</b> | <b>General requirements</b>                                                   |  | N/A |
|            | Position .....                                                                |  | —   |
|            | Manufacturer .....                                                            |  | —   |
|            | Type .....                                                                    |  | —   |
|            | Rated values .....                                                            |  | —   |
| <b>B.2</b> | <b>Test conditions</b>                                                        |  | N/A |
| <b>B.3</b> | <b>Maximum temperatures</b>                                                   |  | N/A |
| <b>B.4</b> | <b>Running overload test</b>                                                  |  | N/A |
| <b>B.5</b> | <b>Locked-rotor overload test</b>                                             |  | N/A |
|            | Test duration (days) .....                                                    |  | —   |
|            | Electric strength test: test voltage (V) .....                                |  | —   |

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|-------------|-------------------------------------------------------------------------|-----------------|---------|
| Clause      | Requirement + Test                                                      | Result - Remark | Verdict |
| <b>B.6</b>  | <b>Running overload test for d.c. motors in secondary circuits</b>      |                 | N/A     |
| B.6.1       | General                                                                 |                 | N/A     |
| B.6.2       | Test procedure                                                          |                 | N/A     |
| B.6.3       | Alternative test procedure                                              |                 | N/A     |
| B.6.4       | Electric strength test; test voltage (V) ..... :                        |                 | N/A     |
| <b>B.7</b>  | <b>Locked-rotor overload test for d.c. motors in secondary circuits</b> |                 | N/A     |
| B.7.1       | General                                                                 |                 | N/A     |
| B.7.2       | Test procedure                                                          |                 | N/A     |
| B.7.3       | Alternative test procedure                                              |                 | N/A     |
| B.7.4       | Electric strength test; test voltage (V) ..... :                        |                 | N/A     |
| <b>B.8</b>  | <b>Test for motors with capacitors</b>                                  |                 | N/A     |
| <b>B.9</b>  | <b>Test for three-phase motors</b>                                      |                 | N/A     |
| <b>B.10</b> | <b>Test for series motors</b>                                           |                 | N/A     |
|             | Operating voltage (V) ..... :                                           |                 | —       |

|            |                                                    |  |     |
|------------|----------------------------------------------------|--|-----|
| <b>C</b>   | <b>ANNEX C, TRANSFORMERS (see 1.5.4 and 5.3.3)</b> |  | N/A |
|            | Position ..... :                                   |  | —   |
|            | Manufacturer ..... :                               |  | —   |
|            | Type ..... :                                       |  | —   |
|            | Rated values ..... :                               |  | —   |
|            | Method of protection ..... :                       |  | —   |
| <b>C.1</b> | <b>Overload test</b>                               |  | N/A |
| <b>C.2</b> | <b>Insulation</b>                                  |  | N/A |
|            | Protection from displacement of windings ..... :   |  | N/A |

|            |                                                                           |  |     |
|------------|---------------------------------------------------------------------------|--|-----|
| <b>D</b>   | <b>ANNEX D, MEASURING INSTRUMENTS FOR TOUCH-CURRENT TESTS (see 5.1.4)</b> |  | N/A |
| <b>D.1</b> | <b>Measuring instrument</b>                                               |  | N/A |
| <b>D.2</b> | <b>Alternative measuring instrument</b>                                   |  | N/A |

|          |                                                            |  |     |
|----------|------------------------------------------------------------|--|-----|
| <b>E</b> | <b>ANNEX E, TEMPERATURE RISE OF A WINDING (see 1.4.13)</b> |  | N/A |
|----------|------------------------------------------------------------|--|-----|

|          |                                                                                         |  |     |
|----------|-----------------------------------------------------------------------------------------|--|-----|
| <b>F</b> | <b>ANNEX F, MEASUREMENT OF CLEARANCES AND CREEPAGE DISTANCES (see 2.10 and Annex G)</b> |  | N/A |
|----------|-----------------------------------------------------------------------------------------|--|-----|

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|-------------|-------------------------------------------------------------------------------|-----------------|---------|
| Clause      | Requirement + Test                                                            | Result - Remark | Verdict |
| <b>G</b>    | <b>ANNEX G, ALTERNATIVE METHOD FOR DETERMINING MINIMUM CLEARANCES</b>         |                 | N/A     |
| <b>G.1</b>  | <b>Clearances</b>                                                             |                 | N/A     |
| G.1.1       | General                                                                       |                 | N/A     |
| G.1.2       | Summary of the procedure for determining minimum clearances                   |                 | N/A     |
| <b>G.2</b>  | <b>Determination of mains transient voltage (V)</b>                           |                 | N/A     |
| G.2.1       | AC mains supply .....                                                         |                 | N/A     |
| G.2.2       | Earthed d.c. mains supplies .....                                             |                 | N/A     |
| G.2.3       | Unearthed d.c. mains supplies .....                                           |                 | N/A     |
| G.2.4       | Battery operation .....                                                       |                 | N/A     |
| <b>G.3</b>  | <b>Determination of telecommunication network transient voltage (V) .....</b> |                 | N/A     |
| <b>G.4</b>  | <b>Determination of required withstand voltage (V)</b>                        |                 | N/A     |
| G.4.1       | Mains transients and internal repetitive peaks ....                           |                 | N/A     |
| G.4.2       | Transients from telecommunication networks ....                               |                 | N/A     |
| G.4.3       | Combination of transients                                                     |                 | N/A     |
| G.4.4       | Transients from cable distribution systems                                    |                 | N/A     |
| <b>G.5</b>  | <b>Measurement of transient voltages (V)</b>                                  |                 | N/A     |
|             | a) Transients from a mains supply                                             |                 | N/A     |
|             | For an a.c. mains supply                                                      |                 | N/A     |
|             | For a d.c. mains supply                                                       |                 | N/A     |
|             | b) Transients from a telecommunication network                                |                 | N/A     |
| <b>G.6</b>  | <b>Determination of minimum clearances .....</b>                              |                 | N/A     |

|          |                                                 |     |
|----------|-------------------------------------------------|-----|
| <b>H</b> | <b>ANNEX H, IONIZING RADIATION (see 4.3.13)</b> | N/A |
|----------|-------------------------------------------------|-----|

|          |                                                                   |     |
|----------|-------------------------------------------------------------------|-----|
| <b>J</b> | <b>ANNEX J, TABLE OF ELECTROCHEMICAL POTENTIALS (see 2.6.5.6)</b> | N/A |
|          | Metal(s) used .....                                               | —   |
| <b>K</b> | <b>ANNEX K, THERMAL CONTROLS (see 1.5.3 and 5.3.8)</b>            | N/A |
| K.1      | Making and breaking capacity                                      | N/A |
| K.2      | Thermostat reliability; operating voltage (V) .....               | N/A |
| K.3      | Thermostat endurance test; operating voltage (V) .....            | N/A |
| K.4      | Temperature limiter endurance; operating voltage (V) .....        | N/A |
| K.5      | Thermal cut-out reliability                                       | N/A |
| K.6      | Stability of operation                                            | N/A |

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|-------------|--------------------|-----------------|---------|
| Clause      | Requirement + Test | Result - Remark | Verdict |

|          |                                                                                                                |  |          |
|----------|----------------------------------------------------------------------------------------------------------------|--|----------|
| <b>L</b> | <b>ANNEX L, NORMAL LOAD CONDITIONS FOR SOME TYPES OF ELECTRICAL BUSINESS EQUIPMENT (see 1.2.2.1 and 4.5.2)</b> |  | <b>P</b> |
| L.1      | Typewriters                                                                                                    |  | N/A      |
| L.2      | Adding machines and cash registers                                                                             |  | N/A      |
| L.3      | Erasers                                                                                                        |  | N/A      |
| L.4      | Pencil sharpeners                                                                                              |  | N/A      |
| L.5      | Duplicators and copy machines                                                                                  |  | N/A      |
| L.6      | Motor-operated files                                                                                           |  | N/A      |
| L.7      | Other business equipment                                                                                       |  | P        |

|          |                                                                    |  |            |
|----------|--------------------------------------------------------------------|--|------------|
| <b>M</b> | <b>ANNEX M, CRITERIA FOR TELEPHONE RINGING SIGNALS (see 2.3.1)</b> |  | <b>N/A</b> |
| M.1      | Introduction                                                       |  | N/A        |
| M.2      | Method A                                                           |  | N/A        |
| M.3      | Method B                                                           |  | N/A        |
| M.3.1    | Ringing signal                                                     |  | N/A        |
| M.3.1.1  | Frequency (Hz) .....                                               |  | —          |
| M.3.1.2  | Voltage (V) .....                                                  |  | —          |
| M.3.1.3  | Cadence; time (s), voltage (V) .....                               |  | —          |
| M.3.1.4  | Single fault current (mA) .....                                    |  | —          |
| M.3.2    | Tripping device and monitoring voltage .....                       |  | N/A        |
| M.3.2.1  | Conditions for use of a tripping device or a monitoring voltage    |  | N/A        |
| M.3.2.2  | Tripping device                                                    |  | N/A        |
| M.3.2.3  | Monitoring voltage (V) .....                                       |  | N/A        |

|          |                                                                                                                |  |            |
|----------|----------------------------------------------------------------------------------------------------------------|--|------------|
| <b>N</b> | <b>ANNEX N, IMPULSE TEST GENERATORS (see 1.5.7.2, 1.5.7.3, 2.10.3.9, 6.2.2.1, 7.3.2, 7.4.3 and Clause G.5)</b> |  | <b>N/A</b> |
| N.1      | ITU-T impulse test generators                                                                                  |  | N/A        |
| N.2      | IEC 60065 impulse test generator                                                                               |  | N/A        |

|          |                                      |  |   |
|----------|--------------------------------------|--|---|
| <b>P</b> | <b>ANNEX P, NORMATIVE REFERENCES</b> |  | — |
|----------|--------------------------------------|--|---|

|          |                                                                  |  |            |
|----------|------------------------------------------------------------------|--|------------|
| <b>Q</b> | <b>ANNEX Q, Voltage dependent resistors (VDRs) (see 1.5.9.1)</b> |  | <b>N/A</b> |
|          | - Preferred climatic categories .....                            |  | N/A        |
|          | - Maximum continuous voltage .....                               |  | N/A        |
|          | - Combination pulse current .....                                |  | N/A        |

| IEC 60950-1 |                                                                                               |                 |         |
|-------------|-----------------------------------------------------------------------------------------------|-----------------|---------|
| Clause      | Requirement + Test                                                                            | Result - Remark | Verdict |
|             | Body of the VDR<br>Test according to IEC60695-11-5.....:                                      |                 | N/A     |
|             | Body of the VDR.<br>Flammability class of material ( min V-1).....:                           |                 | N/A     |
| <b>R</b>    | <b>ANNEX R, EXAMPLES OF REQUIREMENTS FOR QUALITY CONTROL PROGRAMMES</b>                       |                 | N/A     |
| R.1         | Minimum separation distances for unpopulated coated printed boards (see 2.10.6.2)             |                 | N/A     |
| R.2         | Reduced clearances (see 2.10.3)                                                               |                 | N/A     |
| <b>S</b>    | <b>ANNEX S, PROCEDURE FOR IMPULSE TESTING (see 6.2.2.3)</b>                                   |                 | N/A     |
| S.1         | Test equipment                                                                                |                 | N/A     |
| S.2         | Test procedure                                                                                |                 | N/A     |
| S.3         | Examples of waveforms during impulse testing                                                  |                 | N/A     |
| <b>T</b>    | <b>ANNEX T, GUIDANCE ON PROTECTION AGAINST INGRESS OF WATER (see 1.1.2)</b>                   |                 | N/A     |
|             |                                                                                               |                 | —       |
| <b>U</b>    | <b>ANNEX U, INSULATED WINDING WIRES FOR USE WITHOUT INTERLEAVED INSULATION (see 2.10.5.4)</b> |                 | N/A     |
|             |                                                                                               |                 | —       |
| <b>V</b>    | <b>ANNEX V, AC POWER DISTRIBUTION SYSTEMS (see 1.6.1)</b>                                     |                 | N/A     |
| V.1         | Introduction                                                                                  |                 | N/A     |
| V.2         | TN power distribution systems                                                                 |                 | N/A     |
| <b>W</b>    | <b>ANNEX W, SUMMATION OF TOUCH CURRENTS</b>                                                   |                 | N/A     |
| W.1         | Touch current from electronic circuits                                                        |                 | N/A     |
| W.1.1       | Floating circuits                                                                             |                 | N/A     |
| W.1.2       | Earthed circuits                                                                              |                 | N/A     |
| W.2         | Interconnection of several equipments                                                         |                 | N/A     |
| W.2.1       | Isolation                                                                                     |                 | N/A     |
| W.2.2       | Common return, isolated from earth                                                            |                 | N/A     |
| W.2.3       | Common return, connected to protective earth                                                  |                 | N/A     |
| <b>X</b>    | <b>ANNEX X, MAXIMUM HEATING EFFECT IN TRANSFORMER TESTS (see clause C.1)</b>                  |                 | N/A     |
| X.1         | Determination of maximum input current                                                        |                 | N/A     |
| X.2         | Overload test procedure                                                                       |                 | N/A     |

| IEC 60950-1 |                                                                                  |                 |         |
|-------------|----------------------------------------------------------------------------------|-----------------|---------|
| Clause      | Requirement + Test                                                               | Result - Remark | Verdict |
| <b>Y</b>    | <b>ANNEX Y, ULTRAVIOLET LIGHT CONDITIONING TEST (see 4.3.13.3)</b>               |                 | N/A     |
| Y.1         | Test apparatus .....                                                             |                 | N/A     |
| Y.2         | Mounting of test samples .....                                                   |                 | N/A     |
| Y.3         | Carbon-arc light-exposure apparatus .....                                        |                 | N/A     |
| Y.4         | Xenon-arc light exposure apparatus .....                                         |                 | N/A     |
| <b>Z</b>    | <b>ANNEX Z, OVERVOLTAGE CATEGORIES (see 2.10.3.2 and Clause G.2)</b>             |                 | N/A     |
| <b>AA</b>   | <b>ANNEX AA, MANDREL TEST (see 2.10.5.8)</b>                                     |                 | N/A     |
| <b>BB</b>   | <b>ANNEX BB, CHANGES IN THE SECOND EDITION</b>                                   |                 | —       |
| <b>CC</b>   | <b>ANNEX CC, Evaluation of integrated circuit (IC) current limiters</b>          |                 | N/A     |
| CC.1        | General                                                                          |                 | N/A     |
| CC.2        | Test program 1.....                                                              |                 | N/A     |
| CC.3        | Test program 2.....                                                              |                 | N/A     |
| CC.4        | Test program 3.....                                                              |                 | N/A     |
| CC.5        | Compliance.....                                                                  |                 | N/A     |
| <b>DD</b>   | <b>ANNEX DD, Requirements for the mounting means of rack-mounted equipment</b>   |                 | N/A     |
| DD.1        | General                                                                          |                 | N/A     |
| DD.2        | Mechanical strength test, variable N.....                                        |                 | N/A     |
| DD.3        | Mechanical strength test, 250N, including end stops.....                         |                 | N/A     |
| DD.4        | Compliance.....                                                                  |                 | N/A     |
| <b>EE</b>   | <b>ANNEX EE, Household and home/office document/media shredders</b>              |                 | N/A     |
| EE.1        | General                                                                          |                 | N/A     |
| EE.2        | Markings and instructions                                                        |                 | N/A     |
|             | Use of markings or symbols.....                                                  |                 | N/A     |
|             | Information of user instructions, maintenance and/or servicing instructions..... |                 | N/A     |
| EE.3        | Inadvertent reactivation test.....                                               |                 | N/A     |
| EE.4        | Disconnection of power to hazardous moving parts:                                |                 | N/A     |
|             | Use of markings or symbols.....                                                  |                 | N/A     |
| EE.5        | Protection against hazardous moving parts                                        |                 | N/A     |

| IEC 60950-1 |                                                  |                 |         |
|-------------|--------------------------------------------------|-----------------|---------|
| Clause      | Requirement + Test                               | Result - Remark | Verdict |
|             | Test with test finger (Figure 2A) .....:         |                 | N/A     |
|             | Test with wedge probe (Figure EE1 and EE2) ....: |                 | N/A     |

| IEC 60950-1                                                                            |                                        |                                                     |                               |                           |                                     |
|----------------------------------------------------------------------------------------|----------------------------------------|-----------------------------------------------------|-------------------------------|---------------------------|-------------------------------------|
| Clause                                                                                 | Requirement + Test                     |                                                     | Result - Remark               |                           | Verdict                             |
| 1.5.1                                                                                  | TABLE: List of critical components     |                                                     |                               |                           | P                                   |
| Object/ part No.                                                                       | Manufacturer/ trademark                | Type/model                                          | Technical data                | Standard (Edition / year) | Mark(s) of conformity <sup>1)</sup> |
| Plastic enclosure                                                                      | TEIJIN POLYCARBONATE SINGAPORE PTE LTD | L-1250#(f2)<br>L-1250U#<br>L-1250V#<br>L-1250Z#(f1) | HB. Min. 115°C.<br>Min. 1,5mm | UL 94, UL 746             | UL E195100                          |
| PCB                                                                                    | Interchangeable                        | Interchangeable                                     | V-0, 130°C Min                | UL 94, UL 796             | UL                                  |
| Supplementary information:                                                             |                                        |                                                     |                               |                           |                                     |
| <sup>1)</sup> Provided evidence ensures the agreed level of compliance. See OD-CB2039. |                                        |                                                     |                               |                           |                                     |

|                                                                                                                                                                                                                                                                                                                                  |                                       |            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|------------|
| <b>1.5.1</b>                                                                                                                                                                                                                                                                                                                     | <b>TABLE: Opto Electronic Devices</b> | <b>N/A</b> |
| Manufacturer ..... :<br>Type..... :<br>Separately tested ..... :<br>Bridging insulation ..... :<br>External creepage distance..... :<br>Internal creepage distance ..... :<br>Distance through insulation ..... :<br>Tested under the following conditions ..... :<br>Input..... :<br>Output..... :<br>supplementary information |                                       |            |
|                                                                                                                                                                                                                                                                                                                                  |                                       |            |

|                            |                                               |       |            |       |        |           |                            |
|----------------------------|-----------------------------------------------|-------|------------|-------|--------|-----------|----------------------------|
| 1.6.2                      | TABLE: Electrical data (in normal conditions) |       |            |       |        |           | P                          |
| U (V)                      |                                               | I (A) | Irated (A) | P (W) | Fuse # | Ifuse (A) | Condition/status           |
| 12VDC                      |                                               | 0,13  | 0,25       | 1,56  | --     | --        | Normal operated condition. |
| Supplementary information: |                                               |       |            |       |        |           |                            |

|                            |                           |                       |                       |                   |     |
|----------------------------|---------------------------|-----------------------|-----------------------|-------------------|-----|
| 2.1.1.5 c) 1)              | TABLE: max. V, A, VA test |                       |                       |                   | N/A |
| Voltage (rated)<br>(V)     | Current (rated)<br>(A)    | Voltage (max.)<br>(V) | Current (max.)<br>(A) | VA (max.)<br>(VA) |     |
| --                         | --                        | --                    | --                    | --                |     |
| supplementary information: |                           |                       |                       |                   |     |
|                            |                           |                       |                       |                   |     |



| IEC 60950-1                |                      |               |                 |         |
|----------------------------|----------------------|---------------|-----------------|---------|
| Clause                     | Requirement + Test   |               | Result - Remark | Verdict |
| 2.1.1.5 c) 2)              | TABLE: stored energy |               |                 | N/A     |
| Capacitance C (μF)         |                      | Voltage U (V) | Energy E (J)    |         |
| --                         |                      | --            | --              |         |
| supplementary information: |                      |               |                 |         |
|                            |                      |               |                 |         |

|                                                     |                                                                   |                                                             |        |                             |
|-----------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------------|--------|-----------------------------|
| 2.2                                                 | TABLE: evaluation of voltage limiting components in SELV circuits |                                                             |        | N/A                         |
| Component (measured between)                        |                                                                   | max. voltage (V)<br>(normal operation)                      |        | Voltage Limiting Components |
|                                                     |                                                                   | V peak                                                      | V d.c. |                             |
| --                                                  |                                                                   | --                                                          | --     | --                          |
| Fault test performed on voltage limiting components |                                                                   | Voltage measured (V) in SELV circuits<br>(V peak or V d.c.) |        |                             |
| --                                                  |                                                                   | --                                                          |        |                             |
| supplementary information:                          |                                                                   |                                                             |        |                             |
| --                                                  |                                                                   |                                                             |        |                             |

| 2.5                                                            | TABLE: Limited power sources |         |                     |       |       | N/A   |
|----------------------------------------------------------------|------------------------------|---------|---------------------|-------|-------|-------|
| Circuit output tested: --                                      |                              |         |                     |       |       |       |
| Note: Measured Uoc (V) with all load circuits disconnected: -- |                              |         |                     |       |       |       |
| Components                                                     | Sample No.                   | Uoc (V) | I <sub>sc</sub> (A) |       | VA    |       |
|                                                                |                              |         | Meas.               | Limit | Meas. | Limit |
| --                                                             | --                           | --      | --                  | --    | --    | --    |
| --                                                             | --                           | --      | --                  | --    | --    | --    |
| supplementary information:                                     |                              |         |                     |       |       |       |
|                                                                |                              |         |                     |       |       |       |

|                            |                                           |                  |          |
|----------------------------|-------------------------------------------|------------------|----------|
| <b>2.10.2</b>              | <b>Table: working voltage measurement</b> | N/A              |          |
| Location                   | RMS voltage (V)                           | Peak voltage (V) | Comments |
| --                         | --                                        | --               | --       |
| supplementary information: |                                           |                  |          |
| --                         |                                           |                  |          |

| IEC 60950-1                                              |                                                     |              |                  |                 |                  |         |         |
|----------------------------------------------------------|-----------------------------------------------------|--------------|------------------|-----------------|------------------|---------|---------|
| Clause                                                   | Requirement + Test                                  |              |                  | Result - Remark |                  |         | Verdict |
| 2.10.3 and 2.10.4                                        | TABLE: Clearance and creepage distance measurements |              |                  |                 |                  |         | N/A     |
| Clearance (cl) and creepage distance (cr) at/of/between: | U peak (V)                                          | U r.m.s. (V) | Required cl (mm) | cl (mm)         | Required cr (mm) | cr (mm) |         |
| Functional:                                              |                                                     |              |                  |                 |                  |         |         |
| --                                                       | --                                                  | --           | --               | --              | --               | --      |         |
| --                                                       | --                                                  | --           | --               | --              | --               | --      |         |
| Basic/supplementary:                                     |                                                     |              |                  |                 |                  |         |         |
| --                                                       | --                                                  | --           | --               | --              | --               | --      |         |
| --                                                       | --                                                  | --           | --               | --              | --               | --      |         |
| Reinforced:                                              |                                                     |              |                  |                 |                  |         |         |
| --                                                       | --                                                  | --           | --               | --              | --               | --      |         |
| --                                                       | --                                                  | --           | --               | --              | --               | --      |         |
| Supplementary information:--                             |                                                     |              |                  |                 |                  |         |         |

|                                          |                                                        |           |                  |                   |          |     |
|------------------------------------------|--------------------------------------------------------|-----------|------------------|-------------------|----------|-----|
| <b>2.10.5</b>                            | <b>TABLE: Distance through insulation measurements</b> |           |                  |                   |          | N/A |
| Distance through insulation (DTI) at/of: | U peak (V)                                             | U rms (V) | Test voltage (V) | Required DTI (mm) | DTI (mm) |     |
| --                                       | --                                                     | --        | --               | --                | --       | --  |
| --                                       | --                                                     | --        | --               | --                | --       | --  |
| Supplementary information:--             |                                                        |           |                  |                   |          |     |

| IEC 60950-1                                                                                  |                            |               |                         |                        |                 |               |               |                   |               |
|----------------------------------------------------------------------------------------------|----------------------------|---------------|-------------------------|------------------------|-----------------|---------------|---------------|-------------------|---------------|
| Clause                                                                                       | Requirement + Test         |               |                         |                        | Result - Remark |               |               |                   | Verdict       |
| 4.3.8                                                                                        | TABLE: Batteries           |               |                         |                        |                 |               |               |                   | N/A           |
| The tests of 4.3.8 are applicable only when appropriate battery data is not available        |                            |               |                         |                        |                 |               |               |                   | N/A           |
| Is it possible to install the battery in a reverse polarity position?                        |                            |               |                         |                        |                 |               |               |                   | N/A           |
|                                                                                              | Non-rechargeable batteries |               |                         | Rechargeable batteries |                 |               |               |                   |               |
|                                                                                              | Discharging                |               | Un-intentional charging | Charging               |                 | Discharging   |               | Reversed charging |               |
|                                                                                              | Meas. current              | Manuf. Specs. |                         | Meas. current          | Manuf. Specs.   | Meas. current | Manuf. Specs. | Meas. current     | Manuf. Specs. |
| Max. current during normal condition                                                         | --                         | --            | --                      | --                     | --              | --            | --            | --                | --            |
| Max. current during fault condition                                                          | --                         | --            | --                      | --                     | --              | --            | --            | --                | --            |
|                                                                                              |                            |               |                         |                        |                 |               |               |                   |               |
| Test results:                                                                                |                            |               |                         |                        |                 |               |               |                   | N/A           |
| - Chemical leaks                                                                             |                            |               |                         |                        |                 |               |               |                   | N/A           |
| - Explosion of the battery                                                                   |                            |               |                         |                        |                 |               |               |                   | N/A           |
| - Emission of flame or expulsion of molten metal                                             |                            |               |                         |                        |                 |               |               |                   | N/A           |
| - Electric strength tests of equipment after completion of tests                             |                            |               |                         |                        |                 |               |               |                   | N/A           |
| Supplementary information:                                                                   |                            |               |                         |                        |                 |               |               |                   |               |
| Appropriate battery data is not available, the tests of 4.3.8 were performed. See table 5.3. |                            |               |                         |                        |                 |               |               |                   |               |

|                                                    |                         |     |
|----------------------------------------------------|-------------------------|-----|
| <b>4.3.8</b>                                       | <b>TABLE: Batteries</b> | N/A |
| Battery category.....: --                          |                         |     |
| Manufacturer.....: --                              |                         |     |
| Type / model.....: --                              |                         |     |
| Voltage.....: --                                   |                         |     |
| Capacity.....: --                                  |                         |     |
| Tested and Certified by (incl. Ref. No.) .....: -- |                         |     |
| Circuit protection diagram: --                     |                         |     |
|                                                    |                         |     |

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|-------------|--------------------|-----------------|---------|
| Clause      | Requirement + Test | Result - Remark | Verdict |

### MARKINGS AND INSTRUCTIONS (1.7.13 )

|                                     |     |
|-------------------------------------|-----|
| Location of replaceable battery     | N/A |
| Language(s) .....                   | N/A |
| Close to the battery .....          | N/A |
| In the servicing instructions ..... | N/A |
| In the operating instructions ..... | N/A |

|                                                 |                                      |  |                     |                    |                     |                    |        |                               |                  |
|-------------------------------------------------|--------------------------------------|--|---------------------|--------------------|---------------------|--------------------|--------|-------------------------------|------------------|
| 4.5                                             | TABLE: Thermal requirements          |  |                     |                    |                     |                    |        | P                             |                  |
|                                                 | Supply voltage (V) .....:            |  |                     | 12Vdc              | --                  |                    | —      |                               |                  |
|                                                 | Ambient T <sub>min</sub> (°C) .....: |  |                     | 65,0               | --                  |                    | —      |                               |                  |
|                                                 | Ambient T <sub>max</sub> (°C) .....: |  |                     | 65,0               | --                  |                    | —      |                               |                  |
| Maximum measured temperature T of part/at.....: |                                      |  |                     | T (°C)             |                     |                    |        | Allowed T <sub>max</sub> (°C) |                  |
| PCB near U2                                     |                                      |  |                     | 101,4              | --                  |                    | 130    |                               |                  |
| PCB near U11                                    |                                      |  |                     | 97,0               | --                  |                    | 130    |                               |                  |
| Internal plastic enclosure                      |                                      |  |                     | 92,0               | --                  |                    | 115    |                               |                  |
| External plastic enclosure                      |                                      |  |                     | 91,1               | --                  |                    | 95     |                               |                  |
| Temperature T of winding:                       |                                      |  | t <sub>1</sub> (°C) | R <sub>1</sub> (Ω) | t <sub>2</sub> (°C) | R <sub>2</sub> (Ω) | T (°C) | Allowed T <sub>max</sub> (°C) | Insulation class |
| --                                              |                                      |  | --                  | --                 | --                  | --                 | --     | --                            | --               |
| Supplementary information: --                   |                                      |  |                     |                    |                     |                    |        |                               |                  |

|                            |                                                  |                       |                          |     |
|----------------------------|--------------------------------------------------|-----------------------|--------------------------|-----|
| 4.5.5                      | TABLE: Ball pressure test of thermoplastic parts |                       |                          | N/A |
|                            | Allowed impression diameter (mm) ..... :         | ≤ 2 mm                |                          | —   |
| Part                       |                                                  | Test temperature (°C) | Impression diameter (mm) |     |
| --                         |                                                  | --                    | --                       |     |
| Supplementary information: |                                                  |                       |                          |     |

|                                                      |                           |                  |                |                    |          |   |
|------------------------------------------------------|---------------------------|------------------|----------------|--------------------|----------|---|
| 4.7                                                  | TABLE: Resistance to fire |                  |                |                    |          | P |
| Part                                                 | Manufacturer of material  | Type of material | Thickness (mm) | Flammability class | Evidence |   |
| --                                                   | --                        | --               | --             | --                 | --       |   |
| Supplementary information: See appended table 1.5.1. |                           |                  |                |                    |          |   |

|                   |                                         |               |            |                     |  |  |  |            |
|-------------------|-----------------------------------------|---------------|------------|---------------------|--|--|--|------------|
| <b>5.1</b>        | <b>TABLE: touch current measurement</b> |               |            |                     |  |  |  | <b>N/A</b> |
| Measured between: |                                         | Measured (mA) | Limit (mA) | Comments/conditions |  |  |  |            |

| IEC 60950-1                |                    |                 |         |
|----------------------------|--------------------|-----------------|---------|
| Clause                     | Requirement + Test | Result - Remark | Verdict |
| --                         | --                 | --              | --      |
| supplementary information: |                    |                 |         |
|                            |                    |                 |         |

|                               |                                                                              |                                              |                     |                       |
|-------------------------------|------------------------------------------------------------------------------|----------------------------------------------|---------------------|-----------------------|
| <b>5.2</b>                    | <b>TABLE: Electric strength tests, impulse tests and voltage surge tests</b> |                                              |                     | N/A                   |
| Test voltage applied between: |                                                                              | Voltage shape<br>(AC, DC,<br>impulse, surge) | Test voltage<br>(V) | Breakdown<br>Yes / No |
| Functional:                   |                                                                              |                                              |                     |                       |
| --                            |                                                                              | --                                           | --                  | --                    |
| Basic/supplementary:          |                                                                              |                                              |                     |                       |
| --                            |                                                                              | --                                           | --                  | --                    |
| Reinforced:                   |                                                                              |                                              |                     |                       |
| --                            |                                                                              | --                                           | --                  | --                    |
| Supplementary information:    |                                                                              |                                              |                     |                       |

| <b>5.3</b>                 | <b>TABLE: Fault condition tests</b>                                 |                    |           |        |                  | P                                        |
|----------------------------|---------------------------------------------------------------------|--------------------|-----------|--------|------------------|------------------------------------------|
|                            | Ambient temperature (°C) .....                                      |                    | 25,6      |        | —                |                                          |
|                            | Power source for EUT: Manufacturer, model/type, output rating ..... |                    | --        |        | —                |                                          |
| Component No.              | Fault                                                               | Supply voltage (V) | Test time | Fuse # | Fuse current (A) | Observation                              |
| U14 Pin1-2                 | Sc                                                                  | 12Vdc              | 10mins    | --     | --               | The EUT shutdown, no damage, no hazards. |
| Supplementary information: |                                                                     |                    |           |        |                  |                                          |
| Sc=Short circuit.          |                                                                     |                    |           |        |                  |                                          |

| IEC 60950-1                |                     |                                      |                                     |                                     |                                     |                                             |                                                         |
|----------------------------|---------------------|--------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---------------------------------------------|---------------------------------------------------------|
| Clause                     | Requirement + Test  |                                      |                                     | Result - Remark                     |                                     |                                             | Verdict                                                 |
| C.2                        | TABLE: transformers |                                      |                                     |                                     |                                     |                                             | N/A                                                     |
| Loc.                       | Tested insulation   | Working voltage peak / V<br>(2.10.2) | Working voltage rms / V<br>(2.10.2) | Required electric strength<br>(5.2) | Required clearance / mm<br>(2.10.3) | Required creepage distance / mm<br>(2.10.4) | Required distance thr. insul.<br>(2.10.5)               |
| --                         | --                  | --                                   | --                                  | --                                  | --                                  | --                                          | --                                                      |
| Loc.                       | Tested insulation   |                                      |                                     | Test voltage/<br>V                  | Measured clearance / mm             | Measured creepage dist./ mm                 | Measured distance thr. insul. / mm;<br>number of layers |
| --                         | --                  |                                      |                                     | --                                  | --                                  | --                                          | --                                                      |
| supplementary information: |                     |                                      |                                     |                                     |                                     |                                             |                                                         |
|                            |                     |                                      |                                     |                                     |                                     |                                             |                                                         |

|             |                            |     |
|-------------|----------------------------|-----|
| <b>C.2</b>  | <b>TABLE: transformers</b> | N/A |
| Transformer |                            |     |

\*\*\*\*\*End of report\*\*\*\*\*