



Order No. 200219161

**TEST REPORT****IEC 60950, 2nd Edition, 1991 + Amd. 1, 1992 + Amd. 2, 1993 + Amd. 3, 1995 + Amd. 4, 1996**

|                                            |                                                                                                  |              |                                                            |
|--------------------------------------------|--------------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------|
| Product                                    | Modem card                                                                                       |              |                                                            |
| Name and address of the applicant          | Askey Computer Corp.<br>10F, No. 119, Chien Kang Rd.<br>Chung Ho, Taipei Hsien<br>TAIWAN, R.O.C. |              |                                                            |
| Name and address of the manufacturer       | Askey Computer Corp.<br>10F, No. 119, Chien Kang Rd.<br>Chung Ho, Taipei Hsien<br>TAIWAN, R.O.C. |              |                                                            |
| Name and address of the factory            | See page 4                                                                                       |              |                                                            |
| Rating and principal characteristics       | SELV / TNV-3, Cl. III                                                                            |              |                                                            |
| Trade mark                                 | ASKEY                                                                                            |              |                                                            |
| Model/type                                 | WLL030 and WLL030M                                                                               |              |                                                            |
| Serial no                                  | Test sample                                                                                      |              |                                                            |
| Tested according to                        | IEC 60950, 2nd Edition, 1991 + Amd. 1, 1992 + Amd. 2, 1993 + Amd. 3, 1995 + Amd. 4, 1996         |              |                                                            |
|                                            | Safety of information technology equipment                                                       |              |                                                            |
| Name and address of the testing laboratory |                                                                                                  |              | Telephone<br>(+47) 22 96 03 30<br>Fax<br>(+47) 22 96 05 50 |
|                                            | P.O. Box 73 Blindern,<br>N-0314 Oslo, Norway                                                     |              |                                                            |
| Tested by                                  |                                                                                                  |              |                                                            |
|                                            | signature                                                                                        | date         |                                                            |
|                                            | Steinar Nygaard                                                                                  | May 15, 2002 |                                                            |
|                                            | name in block letters                                                                            |              |                                                            |
| Verified by                                |                                                                                                  |              |                                                            |
|                                            | Signature                                                                                        | date         |                                                            |
|                                            | Bård Myrvollen                                                                                   | May 15, 2002 |                                                            |
|                                            | name in block letters                                                                            |              |                                                            |

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|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Additional tests according to:                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Common Modifications, Special National Conditions and National Deviations                                                                                                                                                                                                                                                                                                                                          | EN 60 950 : 1992 + A1 : 1993 + A2 : 1993 + A3 : 1995 + A4 : 1997 + A11 : 1997. Common Modifications, Special National Conditions and National Deviation. (See Appendix EN 60 950 : 1992 + A1 : 1993 + A2 : 1993 + A3 : 1995 + A4 : 1997 + A11 : 1997, confer countries indicated under additional information)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| National requirements                                                                                                                                                                                                                                                                                                                                                                                              | Nordic countries, according to Agreement on Nordic Testing: Covered by Appendix EN 60950, confer countries indicated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Other requirements                                                                                                                                                                                                                                                                                                                                                                                                 | <p>Countries listed in CB Bulletin No. 101A, dated December 2001 as follows: Argentina (AR), Austria (AT), Australia (AU), Belgium (BE), Brazil (BR), Canada (CA), Switzerland (CH), China (CN), Czech Republic (CZ), Germany (DE), Denmark (DK), Spain (ES), Finland (FI), France (FR), United Kingdom (GB), Greece (GR), Hungary (HU), Ireland (IE), Israel (IL), India (IN), Italy (IT), Japan (JP), Korea (KR), The Netherlands (NL), Norway (NO), Poland (PL), Portugal (PT), Russia (RU), Sweden (SE), Singapore (SG), Slovenia (SI), Slovakia (SK), United States (US), South Africa (ZA).</p> <p>All country deviations listed in the CB Bulletin are covered by the Common Modifications, Special National Conditions, National Deviations, and National Requirements noted above except for the following countries which are documented in Country Deviation Appendix's attached to this report:</p> <p>Australia : CB Bulletin No. 101A, December 2001<br/> Canada : CB Bulletin No. 101A, December 2001<br/> China : CB Bulletin No. 101A, December 2001<br/> Israel : CB Bulletin No. 101A, December 2001<br/> Japan : CB Bulletin No. 101A, December 2001<br/> Korea : CB Bulletin No. 101A, December 2001<br/> Singapore : CB Bulletin No. 101A, December 2001<br/> United States : CB Bulletin No. 101A, December 2001</p> |
| <p><b>General remarks:</b><br/> The test results presented in this report relate only to the object tested.<br/> This report shall not be reproduced except in full without the written approval of the testing laboratory.</p> <p><b>Possible test case verdicts:</b><br/> <b>P</b> = Pass, <b>F</b> = Fail, <b>N</b> = Not applicable, — = No verdict necessary. Placed in the column to the right (Verdict)</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



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|            | SUMMARY OF TESTING :                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| Sub-clause | Information/Remarks                                                                                                                                                                                                                                                                                                                                                                                                                  | Comments                                                                                                                                         |
| —          | Radio and television interference suppression<br>Compliance with the EMC directive is necessary for achieving type certification. The appliance shall comply with the relevant EMC standards, depending on the equipment in question.<br>In NO, compliance with standards for radio interference suppression is a part of Nemko's certification.<br>In FI, DK and SE compliance is not necessary for achieving safety certification. | The equipment has not been tested for EMC. Must be considered for the end product.                                                               |
| 1.7.14     | Language of instructions                                                                                                                                                                                                                                                                                                                                                                                                             | Instructions shall be supplied in a language suitable for the country into which the product is to be used.                                      |
| 2.1.01     | Access to energized parts                                                                                                                                                                                                                                                                                                                                                                                                            | The equipment is intended to be installed into portable computers or similar without operator access to internal parts.                          |
| 2.9.4.2    | Thin sheet material                                                                                                                                                                                                                                                                                                                                                                                                                  | No thin sheet material used as insulation between SELV and TNV-3 circuits.                                                                       |
| 4.4.4      | Resistance to fire                                                                                                                                                                                                                                                                                                                                                                                                                   | The equipment is intended for installation into a host IT equipment with overall fire enclosure. Compliance shall be checked in the end product. |
|            |                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                  |



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|  | <b>ADDITIONAL INFORMATION</b>                                                                                                |  |
|  | <b>DESCRIPTION OF EQUIPMENT UNDER TEST:</b>                                                                                  |  |
|  | The subject equipment is a mini PCI wireless LAN / modem module that is powered by the PCI slot of a host IT equipment.      |  |
|  | Both models are identical except for model name.                                                                             |  |
|  |                                                                                                                              |  |
|  | <b>NAME AND ADDRESS OF PRODUCTION-SITES (FACTORIES):</b>                                                                     |  |
|  | Askey Computer Corp.<br>10F, No. 119, Chien Kang Rd.<br>Chung Ho, Taipei Hsien<br>TAIWAN, R.O.C.                             |  |
|  | Askey Computer Corp.<br>2F, No. 2, Lane 497, Chung Cheng Rd.<br>Hsin Tien, Taipei Hsien<br>TAIWAN, R.O.C.                    |  |
|  |                                                                                                                              |  |
|  | <b>INFORMATION ABOUT THE STANDARDS / DOCUMENTS CONSIDERED :</b>                                                              |  |
|  | See pages 1 and 2                                                                                                            |  |
|  |                                                                                                                              |  |
|  | <b>TESTED ACCORDING TO NATIONAL REQUIREMENTS FOR THE FOLLOWING COUNTRIES:</b>                                                |  |
|  | See page 2. This report may be used as a basis for obtaining certification from any CB member including all CENELEC members. |  |
|  |                                                                                                                              |  |
|  | <b>LIST OF APPENDIXES / ENCLOSURES TO THE TEST REPORT :</b>                                                                  |  |
|  | 1) Appendix : EN 60950.                                                                                                      |  |
|  | 2) Photos                                                                                                                    |  |
|  | 3) Country deviation Appendixes for Australia, Canada, China, Israel, Japan, Korea, Singapore and the United States.         |  |
|  |                                                                                                                              |  |



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|           |                                                                                                                                    |                                                                                                                                                                                            |   |
|-----------|------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1.0.00    | <b>GENERAL</b>                                                                                                                     |                                                                                                                                                                                            | — |
| 1.1.00    | <b>SCOPE</b>                                                                                                                       |                                                                                                                                                                                            | — |
| 1.1.01    | The equipment is within the scope                                                                                                  | The product is within the scope of IEC 60950.                                                                                                                                              | — |
| 1.1.02    | Additional requirements:                                                                                                           |                                                                                                                                                                                            | — |
|           | Exposure to extreme temperatures, excessive dust, moisture or vibration; to flammable gases; to corrosive or explosive atmospheres | This equipment is intended to operate in a "normal" environment (Offices and homes).<br>T <sub>mra</sub> = 45°C.                                                                           | — |
|           | Electromedical equipment connected to the patient                                                                                  | This equipment is not an electromedical equipment intended to be physically connected to a patient.                                                                                        | — |
|           | Equipment used in vehicles, ships or aircrafts, in tropical countries or at elevations > 2 000 m                                   | This equipment is intended to operate in a "normal" environment (Offices and homes).<br>T <sub>mra</sub> = 45°C.                                                                           | — |
|           | Equipment subject to transient overvoltages exceeding those for Overvoltage Category II (IEC 60664)                                | This equipment is not regarded to be subject to transient overvoltages exceeding those for Installation Category II according to IEC 60664. Class III equipment supplied from a DC source. | — |
|           | Equipment intended for use where ingress of water is possible                                                                      | This equipment is intended to be used in applications where ingress of water is not regarded possible. The equipment is non-protected according to IEC 60529.                              | — |
|           | IP-classification (IEC 60529) (IP)                                                                                                 | Not IP rated.                                                                                                                                                                              | — |
| 1.2.01    | <b>EQUIPMENT ELECTRICAL RATINGS</b>                                                                                                |                                                                                                                                                                                            | — |
| 1.2.01.01 | - 1.2.01.02 Rated voltage / voltage range as declared by the manufacturer                                                          | The manufacturer has not declared other input voltage than the rated one, see Sub-clause 1.7.01.                                                                                           | — |
| 1.2.01.03 | Rated current as declared                                                                                                          | The manufacturer has not declared other input current than the rated one, see Sub-clause 1.7.01.                                                                                           | — |
| 1.2.01.04 | - 1.2.04.05 Rated frequency / frequency range                                                                                      | DC input.                                                                                                                                                                                  | — |
| 1.2.02    | <b>OPERATING CONDITIONS</b>                                                                                                        |                                                                                                                                                                                            | — |
| 1.2.02.01 | Normal load as described in Annex L or as close as possible to the most severe normal use                                          | No testing performed requiring normal load.                                                                                                                                                | — |
| 1.2.02.02 | Rated operating time as assigned by the manufacturer                                                                               | The manufacturer has not declared a rated operating time.                                                                                                                                  | — |
| 1.2.02.03 | - 1.2.02.05 Continuous operation / Short-time / Intermittent operation                                                             | The equipment is regarded to be for continuous operation.                                                                                                                                  | — |
| 1.2.03    | <b>EQUIPMENT MOBILITY</b><br>The mass of the equipment (kg)                                                                        | < 0.5 kg                                                                                                                                                                                   | — |
| 1.2.03.01 | - 1.2.03.03 Movable equipment / Hand-held equipment / Stationary equipment                                                         | None.                                                                                                                                                                                      | — |

|           |                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |
|-----------|--------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1.2.03.04 | - 1.2.03.06 Fixed equipment /<br>Equipment for building-in /<br>Direct plug-in equipment                     | Equipment for building-in.                                                                                                                                                                                                                                                                                                                                                                                                                                                             | —        |
| 1.2.04    | <b>CLASSES OF EQUIPMENT -<br/>PROTECTION AGAINST<br/>ELECTRIC SHOCK</b>                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |          |
| 1.2.04.01 | - 1.2.04.3 Class I, II or III equipment                                                                      | Class III equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | —        |
| 1.2.05    | <b>CONNECTION TO THE SUPPLY</b>                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | —        |
| 1.2.05.01 | - 1.2.05.05 Type of connection to<br>the supply                                                              | The unit can only be connected to an SELV circuit.                                                                                                                                                                                                                                                                                                                                                                                                                                     | —        |
| 1.2.08    | <b>CIRCUITS AND CIRCUIT<br/>CHARACTERISTICS</b>                                                              | The unit contains secondary circuits (SELV) and TNV-3<br>circuits.                                                                                                                                                                                                                                                                                                                                                                                                                     | —        |
| 1.2.12    | <b>POWER DISTRIBUTION</b>                                                                                    | See Sub-cl. 1.2.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | —        |
|           | - 1.2.12.03 Tested for power<br>system(s) type                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | —        |
|           | IT power system phase-to-phase<br>voltage                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | —        |
| 1.5.00    | <b>COMPONENTS</b>                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | —        |
| 1.5.01    | Comply with IEC 60950 or relevant<br>component standard                                                      | Refer to List of Critical Components.                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>P</b> |
| 1.5.02    | Evaluation and testing of<br>components                                                                      | Certified components are used in accordance with their<br>ratings, certifications and they comply with applicable<br>parts of this standard.<br>Components not certified are used in accordance with<br>their ratings and they comply with applicable parts of IEC<br>60950 and the relevant component standard.<br>Components, for which no relevant IEC-standard exist,<br>have been tested under the conditions occurring in the<br>equipment, using applicable parts of IEC 60950. | <b>P</b> |
| 1.5.03    | Transformers                                                                                                 | No transformer in the equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                       | <b>N</b> |
| 1.5.04    | High voltage components<br>Flammability class of high-voltage<br>components operating at $U_{p-p} > 4$<br>kV | No high voltage components.                                                                                                                                                                                                                                                                                                                                                                                                                                                            | <b>N</b> |
| 1.5.05    | Interconnecting cables                                                                                       | No interconnecting cables.                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <b>N</b> |
| 1.5.06    | Mains capacitors                                                                                             | Class III equipment.                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | <b>N</b> |



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| 1.5.01 LIST OF CRITICAL COMPONENTS |                                                                                                                |                    |                      |                                 |                                               | P                                     |
|------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------|----------------------|---------------------------------|-----------------------------------------------|---------------------------------------|
| Part No                            | Component/<br>Object                                                                                           | Manufacturer       | Type / Model         | Ratings /<br>Technical Data     | Complies<br>with the<br>following<br>standard | Marks of<br>conformity<br>granted **) |
| F1                                 | Fuse<br>(optional)                                                                                             | Littelfuse         | 429                  | 5A, 24Vdc                       | —                                             | UL                                    |
| RV1                                | Varistor<br>(optional)                                                                                         | Power Innovations  | TISP4350H3BJ         | 310Vac                          | —                                             | UL                                    |
|                                    |                                                                                                                | Teccor Electronics | P3100SB              |                                 |                                               | UL                                    |
| C64,<br>C65                        | Coupling<br>capacitor<br>(optional)                                                                            | Holy Stone         | SCC1808X<br>series   | Max. 1000pF,<br>min. 250Vac, Y3 | IEC 60384-<br>14:93 *)                        | TÜV R                                 |
|                                    |                                                                                                                | Novacap            | LS1808N102K30<br>2N  |                                 |                                               | TÜV R                                 |
|                                    |                                                                                                                | Murata             | GD                   |                                 |                                               | TÜV R                                 |
|                                    |                                                                                                                | Johanson           | SC                   |                                 |                                               | S                                     |
|                                    |                                                                                                                | Murata             | GC, GF               | Max. 1000pF,<br>min 250Vac, Y2  |                                               | S                                     |
|                                    |                                                                                                                | Matsushita         | FC                   |                                 |                                               | S                                     |
| C45,<br>C48                        | Coupling<br>capacitor<br>(optional)                                                                            | Holy Stone         | C1808N series        | Max. 150pF,<br>min. 250Vac, Y3  | IEC 60384-<br>14:93 *)                        | TÜV R                                 |
|                                    |                                                                                                                | Novacap            | LS1808N151K30<br>2NT |                                 |                                               | TÜV R                                 |
|                                    |                                                                                                                | Murata             | GD                   |                                 |                                               | TÜV R                                 |
|                                    |                                                                                                                | Johanson           | SC                   |                                 |                                               | S                                     |
|                                    |                                                                                                                | Murata             | GC, GF               | Max. 150Vac,<br>min. 250Vac, Y2 |                                               | S                                     |
|                                    |                                                                                                                | Matsushita         | FC                   |                                 |                                               | S                                     |
|                                    | PCB<br>material                                                                                                | Various            | Various              | Flame class V-0,<br>min. 105°C  | UL 94                                         | UL                                    |
|                                    | Mylar sheet                                                                                                    | Various            | Various              | Flame class min.<br>V-1         | UL 94                                         | UL                                    |
|                                    | Comments:                                                                                                      |                    |                      |                                 |                                               |                                       |
| *)                                 | Impulse test of 2.5kV has been performed before the endurance test for Y3 capacitors.                          |                    |                      |                                 |                                               |                                       |
| **)                                | Marks listed under “Marks of conformity granted” indicates that Nemko has verified certifications respectively |                    |                      |                                 |                                               |                                       |



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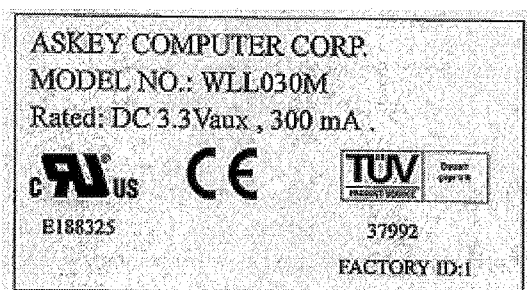
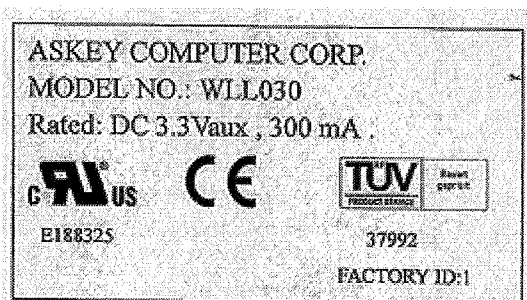
|          |                                                                |                                                                                      |          |
|----------|----------------------------------------------------------------|--------------------------------------------------------------------------------------|----------|
| 1.6.00   | <b>POWER INTERFACE</b>                                         | Class III equipment                                                                  | <b>N</b> |
| 1.7.00   | <b>MARKING AND INSTRUCTIONS</b>                                |                                                                                      |          |
| 1.7.01   | Location of marking                                            | The required marking is applied on the label.                                        | <b>P</b> |
|          | Rated voltage / voltage range / multiple rated voltages        | Powered by PCI slot, marking is not required.                                        | <b>N</b> |
|          | For d.c. operated equipment; symbol for nature of supply       | DC symbol not required.                                                              | <b>N</b> |
|          | Rated frequency / frequency range (Hz)                         | Powered by PCI slot, marking is not required.                                        | <b>N</b> |
|          | Rated current / multiple current ratings (A)                   | Powered by PCI slot, marking is not required.                                        | <b>N</b> |
|          | Manufacturers name, trade mark or identification mark          | Askey                                                                                | <b>P</b> |
|          | Type / model                                                   | WLL030 and WLL030M.                                                                  | <b>P</b> |
|          | Symbol of Class II                                             | Class III equipment.                                                                 | <b>N</b> |
|          | Additional marking do not give rise to misunderstanding        | The additional marking does not give rise to misunderstandings.                      | <b>P</b> |
|          | Certification marks                                            | Refer to Copy of the markings.                                                       | —        |
| 1.7.02   | Safety instructions                                            | No precautions are necessary.                                                        | <b>N</b> |
|          | Operating instructions                                         | Installation and operating instructions are available to the user in User's Manual . | <b>P</b> |
| 1.7.03   | Short duty cycles                                              | The equipment is intended for continuous operation.                                  | <b>N</b> |
| 1.7.04   | Mains voltage adjustment (voltage/frequency setting)           | Class III equipment.                                                                 | <b>N</b> |
| 1.7.05   | Marking at power outlets                                       | Class III equipment.                                                                 | <b>N</b> |
| 1.7.06   | Marking at fuse holders                                        | Class III equipment                                                                  | <b>N</b> |
| 1.7.07.1 | - 1.7.07.2 Wiring terminals, indications                       | Class III equipment.                                                                 | <b>N</b> |
| 1.7.08.1 | Controls and indicators, identification and location           | No controls.                                                                         | <b>N</b> |
| 1.7.08.2 | Colours of controls and indicators where safety is involved    | No controls.                                                                         | <b>N</b> |
| 1.7.08.3 | Symbols according to IEC 60417                                 | No symbols required.                                                                 | <b>N</b> |
| 1.7.08.4 | Figures used for indicating positions of controls              | No controls.                                                                         | <b>N</b> |
| 1.7.08.5 | Location of markings and indications for switches and controls | No switches or controls.                                                             | <b>N</b> |
| 1.7.09   | Marking when more than one power supply connection             | Class III equipment.                                                                 | <b>N</b> |



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|        |                                                              |                                                                                                                                                                      |   |
|--------|--------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 1.7.10 | Instructions for installation to IT power system             | Class III equipment.                                                                                                                                                 | N |
| 1.7.11 | Instructions when protection relies on building installation | Class III equipment.                                                                                                                                                 | N |
| 1.7.12 | Marking when leakage current exceeds 3,5 mA                  | Class III equipment.                                                                                                                                                 | N |
| 1.7.13 | Marking at thermostats and other regulating devices          | No adjustable thermostats or other regulating devices.                                                                                                               | N |
| 1.7.14 | Language of safety markings/instruction                      | No safety precautions necessary.                                                                                                                                     | N |
|        | Language                                                     | Installation and operating instructions are available to the user in User's Manual. Instructions and markings verified in English. Refer also to Summary of Testing. | — |
| 1.7.15 | Durability and legibility                                    | The marking withstands required tests.                                                                                                                               | P |
| 1.7.16 | Markings on removable parts                                  | No marking is placed on removable parts.                                                                                                                             | N |
| 1.7.17 | Warning text for replaceable lithium batteries               | No lithium battery in the equipment.                                                                                                                                 | N |
|        | Language                                                     |                                                                                                                                                                      | — |
| 1.7.18 | Operator access with a tool                                  | Equipment for building-in. To be evaluated in the end use.                                                                                                           | N |
| 1.7.19 | Equipment for restricted access locations                    | Equipment not intended for installation in RAL .                                                                                                                     | N |

Copy of the markings:





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|               |                                                                                    |                                                                                               |          |
|---------------|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|----------|
| <b>2.0.00</b> | <b>PROTECTION FROM HAZARDS</b>                                                     |                                                                                               | <b>—</b> |
| <b>2.1.00</b> | <b>PROTECTION FROM ELECTRIC SHOCK AND ENERGY HAZARDS</b>                           |                                                                                               | <b>—</b> |
| 2.1.01        | Access to energized parts                                                          | Unit has only TNV-3 and SELV circuits. Refer to Sub-clause 6.2.2 and Summary of Testing.      | <b>N</b> |
| 2.1.02        | Protection in operator access areas                                                | Refer to Sub-clause 2.1.1.                                                                    | <b>N</b> |
| 2.1.03.1      | Access to internal wiring: ELV circuit                                             | No internal wiring at ELV.                                                                    | <b>N</b> |
| 2.1.03.2      | Access to internal wiring: Hazardous voltage circuits                              | No internal wiring at hazardous voltage.                                                      | <b>N</b> |
| 2.1.04.1      | Protection in service access areas                                                 | No requirement is specified regarding contact with TNV-3 circuits. Refer to Sub-clause 6.2.2. | <b>N</b> |
| 2.1.04.2      | Protection in restricted access locations                                          | Equipment not intended for installation in RAL.                                               | <b>N</b> |
| 2.1.05        | Energy hazards in operator access areas                                            | No energy hazards in the unit.                                                                | <b>N</b> |
| 2.1.06        | Clearances behind conductive enclosures                                            | No conductive enclosures.                                                                     | <b>N</b> |
| 2.1.07        | Shafts of manual controls                                                          | No shafts of knobs etc. at ELV or hazardous voltage.                                          | <b>N</b> |
| 2.1.08        | Insulation of manual controls                                                      | No conductive handles.                                                                        | <b>N</b> |
| 2.1.09        | Conductive casings of capacitors                                                   | Class III equipment.                                                                          | <b>N</b> |
| 2.1.10        | Risk of electric shock from stored charge on capacitors connected to mains circuit | Class III equipment.                                                                          | <b>N</b> |
|               | Time-constant                                                                      |                                                                                               | <b>—</b> |

|               |                                    |                                                                                                                                                                               |          |
|---------------|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| <b>2.2.00</b> | <b>INSULATION</b>                  | <b>TNV-3 – SELV</b>                                                                                                                                                           | <b>N</b> |
| 2.2.1         | Methods for insulation             | Insulating materials used are solid or laminated, having adequate thickness and adequate creepage distance over their surfaces and there are adequate clearances through air. | <b>P</b> |
| 2.2.2         | Properties of insulating materials | Neither natural rubber, materials containing asbestos nor hygroscopic materials are used as insulation.                                                                       | <b>P</b> |
| 2.2.3         | Humidity conditioning              | Humidity treatment performed for 120 h at 40°C, 91 - 95 %.                                                                                                                    | <b>P</b> |
| 2.2.4         | Requirements for insulation        | Electric strength test conducted. No flash over or breakdown of insulation. Refer to Sub-clause 6.4.2.                                                                        | <b>P</b> |
| 2.2.5         | Insulation parameters              | Application and working voltage are considered.                                                                                                                               | <b>P</b> |



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|         |                                                                 |                                                                                                                    |          |
|---------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|----------|
| 2.2.6   | Categories of insulation                                        | Separation between TNV-3 and SELV circuits complies with supplementary insulation for a primary circuit at 250Vac. | <b>P</b> |
| 2.2.7.1 | - 2.2.7.5 Rules for the determination of working voltage        | The rules of Sub-clauses 2.2.7.1 - 2.2.7.5 are applied for the determination of working voltage.                   | <b>P</b> |
| 2.2.8   | - 2.2.8.3 Double or reinforced insulation bridged by components | No components bridging double or reinforced insulation.                                                            | <b>N</b> |

|        |                                                                                                                                                                                                |                                                                                 |          |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|----------|
| 2.3.00 | <b>SELV CIRCUITS</b>                                                                                                                                                                           |                                                                                 | —        |
| 2.3.01 | Voltage (V) of SELV circuits under normal operating conditions and after a single fault                                                                                                        | Class III equipment, within SELV limits.                                        | <b>P</b> |
| 2.3.02 | Voltage (V) between any two conductors of SELV circuit(s) and for Class I equipment between any conductor of SELV and equipment protective earthing terminal under normal operating conditions | Class III equipment, within SELV limits.                                        | <b>P</b> |
| 2.3.03 | Voltage (V) of SELV in the event of a single failure of basic or supplementary insulation or of a component                                                                                    | Class III equipment, within SELV limits.                                        | <b>P</b> |
| 2.3.03 | - 2.3.03.3 Method used for separation                                                                                                                                                          | Class III equipment, within SELV limits.                                        | <b>N</b> |
| 2.3.04 | Additional constructional requirements                                                                                                                                                         | Means are provided to prevent contact between SELV circuits and TNV-3 circuits. | <b>P</b> |
| 2.3.05 | Connection of SELV circuits to other circuits                                                                                                                                                  | SELV circuits are only connected to other SELV circuits and Ground.             | <b>P</b> |

|        |                                 |                              |          |
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| 2.4.00 | <b>LIMITED CURRENT CIRCUITS</b> | No limited current circuits. | <b>N</b> |
|--------|---------------------------------|------------------------------|----------|

|        |                                |                                      |          |
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| 2.5.00 | <b>PROVISIONS FOR EARTHING</b> | Not applicable, Class III equipment. | <b>N</b> |
|--------|--------------------------------|--------------------------------------|----------|

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| 2.6.00 | <b>DISCONNECTION FROM PRIMARY POWER</b> | Class III equipment. | <b>N</b> |
|--------|-----------------------------------------|----------------------|----------|

|        |                                                                   |                      |          |
|--------|-------------------------------------------------------------------|----------------------|----------|
| 2.7.00 | <b>OVERCURRENT AND EARTH FAULT PROTECTION IN PRIMARY CIRCUITS</b> | Class III equipment. | <b>N</b> |
|--------|-------------------------------------------------------------------|----------------------|----------|

|        |                          |                       |          |
|--------|--------------------------|-----------------------|----------|
| 2.8.00 | <b>SAFETY INTERLOCKS</b> | No safety interlocks. | <b>N</b> |
|--------|--------------------------|-----------------------|----------|



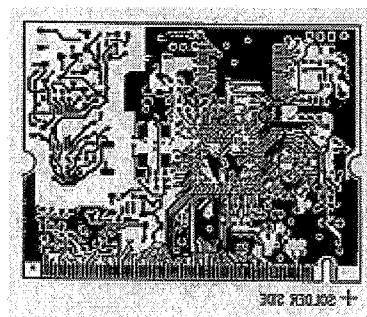
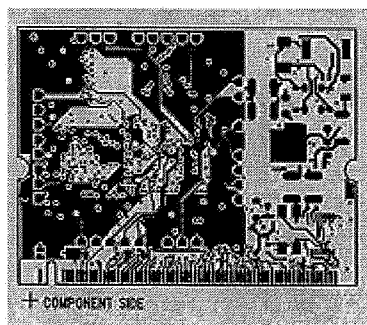
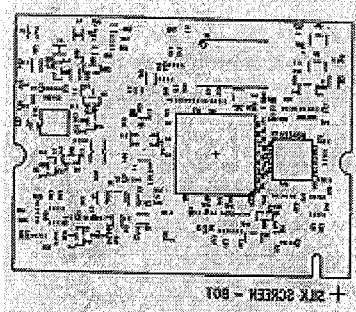
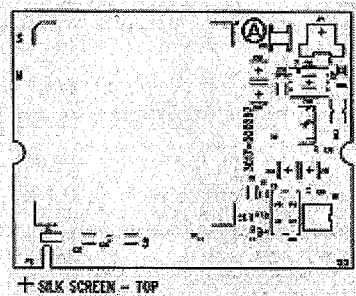
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|                                                                                                          |                                                                                   |                         |                              |       |                                                                                                                                                                                                             |        |                                                    |        |       |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------|------------------------------|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|----------------------------------------------------|--------|-------|
| 2.9.00                                                                                                   | <b>CLEARANCES, CREEPAGE DISTANCES AND DISTANCES THROUGH INSULATION</b>            |                         |                              |       | Distances must also be checked in the end product.                                                                                                                                                          |        |                                                    |        | —     |
|                                                                                                          | Nominal voltage                                                                   |                         |                              |       | The requirements are based on a mains voltage of 250Vac.                                                                                                                                                    |        |                                                    |        | —     |
|                                                                                                          | Pollution degree                                                                  |                         |                              |       | 2                                                                                                                                                                                                           |        |                                                    |        | —     |
|                                                                                                          | CTI rating                                                                        |                         |                              |       | Group IIIa + IIIb                                                                                                                                                                                           |        |                                                    |        | —     |
| Type of Insulation                                                                                       | Position/ Location<br>1                                                           | Position/ Location<br>2 | Working Voltage<br>Up   Urms |       | Clearance 2.9.2<br>Required   Measured                                                                                                                                                                      |        | Creepage distance 2.9.3<br>Required   Measured     |        | Comm. |
| Supple-mentary                                                                                           | TNV-3                                                                             | SELV / Ground           | 354 V                        | 250 V | 2.0 mm                                                                                                                                                                                                      | 2.6 mm | 2.5 mm                                             | 2.6 mm | PCB   |
| U in Volt, Clearances/Distances in mm, Comm. = Comment                                                   |                                                                                   |                         |                              |       |                                                                                                                                                                                                             |        |                                                    |        |       |
| 2.9.2.1                                                                                                  | Clearances in primary circuits                                                    |                         |                              |       | No primary circuits, see table above.                                                                                                                                                                       |        |                                                    |        | N     |
| 2.9.2.2                                                                                                  | Clearances in secondary circuits                                                  |                         |                              |       | Only operational insulation in SELV.                                                                                                                                                                        |        |                                                    |        | N     |
| 2.9.3                                                                                                    | Creepage distances                                                                |                         |                              |       | See table above.                                                                                                                                                                                            |        |                                                    |        | P     |
| 2.9.4.1                                                                                                  | Minimum distances through insulation                                              |                         |                              |       | Required distance through insulation<br>Supplementary insulation : 0,4 mm or 3 layers, 2 of which must withstand 1 500 V a.c. / 1 min, or 2 layers of which each layer must withstand 1 500 V a.c. / 1 min. |        |                                                    |        | P     |
|                                                                                                          |                                                                                   |                         | U <sub>peak</sub> /dc        |       | Test voltage                                                                                                                                                                                                |        | Distance through insulation<br>required   measured |        |       |
| Mylar sheet (BI)                                                                                         |                                                                                   |                         | 354 Vp                       |       | 1500 Vac                                                                                                                                                                                                    |        | —   0.15 mm                                        |        |       |
| U in volts (V); distances in mm                                                                          |                                                                                   |                         |                              |       |                                                                                                                                                                                                             |        |                                                    |        |       |
| Comments: The mylar sheet on the modem card does not provide supplementary insulation to TNV-3 circuits. |                                                                                   |                         |                              |       |                                                                                                                                                                                                             |        |                                                    |        |       |
| 2.9.4.2                                                                                                  | Thin sheet material                                                               |                         |                              |       | No thin sheet material used as insulation between SELV and TNV-3 circuits.                                                                                                                                  |        |                                                    |        | N     |
| 2.9.4.3                                                                                                  | Printed boards                                                                    |                         |                              |       | The PCB does not serve as insulation barrier.                                                                                                                                                               |        |                                                    |        | N     |
| 2.9.4.4                                                                                                  | Wound components without interleaved insulation                                   |                         |                              |       | No wound components in the unit.                                                                                                                                                                            |        |                                                    |        | N     |
| 2.9.5                                                                                                    | Distances on coated printed boards                                                |                         |                              |       | No special coating in order to reduce distances.                                                                                                                                                            |        |                                                    |        | N     |
| 2.9.6                                                                                                    | Internal distances in enclosed and sealed parts                                   |                         |                              |       | No such parts.                                                                                                                                                                                              |        |                                                    |        | N     |
| 2.9.7                                                                                                    | Spacings filled by insulating compound (internal distances in encapsulated parts) |                         |                              |       | No such parts.                                                                                                                                                                                              |        |                                                    |        | N     |
| 2.9.8                                                                                                    | Component external terminations (distances between external terminations)         |                         |                              |       | See Sub-clauses 2.9.2 up to and including 2.9.7.                                                                                                                                                            |        |                                                    |        | P     |

|       |                                    |                           |   |
|-------|------------------------------------|---------------------------|---|
| 2.9.9 | Insulation with varying dimensions | No such transformer used. | N |
|-------|------------------------------------|---------------------------|---|

**2.9.0 CLEARANCES, CREEPAGE DISTANCES AND DISTANCES THROUGH INSULATION (continued)**

PCB component / trace layout, not in scale 1:1





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|         |                                                            |                                                                                                                 |          |
|---------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------|
| 2.10.00 | <b>INTERCONNECTION OF EQUIPMENT</b>                        |                                                                                                                 |          |
| 2.10.01 | General requirements (connection of SELV and TNV circuits) | SELV circuits and TNV-3 circuits will only be connected to other SELV circuits and TNV-3 circuits respectively. | <b>P</b> |
| 2.10.02 | Types of interconnection circuits                          | SELV circuit and TNV-3 circuit.                                                                                 | <b>P</b> |
| 2.10.03 | ELV as interconnection circuits                            | No ELV interconnections.                                                                                        | <b>N</b> |

|      |                              |                          |          |
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| 2.11 | <b>LIMITED POWER SOURCES</b> | No limited power source. | <b>N</b> |
|------|------------------------------|--------------------------|----------|

|        |                                                                    |                                                                                |          |
|--------|--------------------------------------------------------------------|--------------------------------------------------------------------------------|----------|
| 3.0.00 | <b>WIRING, CONNECTIONS AND SUPPLY</b>                              |                                                                                |          |
| 3.1.00 | <b>GENERAL</b>                                                     |                                                                                |          |
| 3.1.01 | Cross-sectional area and protection                                | No wiring.                                                                     | <b>N</b> |
| 3.1.02 | Wireways                                                           | No wiring.                                                                     | <b>N</b> |
| 3.1.03 | Fixing of internal wiring                                          | No wiring.                                                                     | <b>N</b> |
| 3.1.04 | Fixing of uninsulated conductors                                   | No uninsulated conductors used.                                                | <b>N</b> |
| 3.1.05 | Insulation of individual conductors                                | No uninsulated conductors used except traces on pwb.                           | <b>P</b> |
| 3.1.06 | Wires coloured green/yellow (only for protective earth connection) | No wiring.                                                                     | <b>N</b> |
| 3.1.07 | Beads and similar ceramic insulators                               | No beads or similar insulators.                                                | <b>N</b> |
| 3.1.08 | Required electrical contact pressure                               |                                                                                | <b>N</b> |
| 3.1.09 | Design of electrical connections                                   | No contact pressure through insulating material.                               | <b>N</b> |
| 3.1.10 | End of stranded conductor                                          | No wiring.                                                                     | <b>N</b> |
| 3.1.11 | Spaced thread and thread-cutting screws                            | Thread-cutting or space thread screws are not used for electrical connections. | <b>N</b> |

|        |                                    |                      |          |
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| 3.2.00 | <b>CONNECTION TO PRIMARY POWER</b> | Class III equipment. | <b>N</b> |
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| 3.3.00 | <b>WIRING TERMINALS FOR EXTERNAL PRIMARY POWER SUPPLY CONDUCTORS</b> | Class III equipment. | <b>N</b> |
|--------|----------------------------------------------------------------------|----------------------|----------|



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|        |                                                                                            |                                                                            |   |
|--------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|---|
| 4.0.00 | <b>PHYSICAL REQUIREMENTS</b>                                                               |                                                                            |   |
| 4.1.00 | <b>STABILITY AND MECHANICAL HAZARDS</b>                                                    |                                                                            |   |
| 4.1.01 | Stability tests                                                                            | Equipment for building-in.                                                 | N |
|        | Tilt to an angle of 10°                                                                    |                                                                            | — |
|        | Applying 20 % of the weight (max. 250 N) (floor-standing unit having a mass 25 kg or more) |                                                                            | — |
|        | Downward force of 800 N (floor-standing unit)                                              |                                                                            | — |
| 4.1.02 | Protection against personal injury                                                         | No moving parts.                                                           | N |
| 4.1.03 | Warning and means provided for stopping moving parts                                       | No such moving parts.                                                      | N |
| 4.1.04 | Edges and corners                                                                          | No edges or corners on the equipment represent any hazard to the operator. | P |
| 4.1.05 | Enclosures of high pressure lamps                                                          | No high pressure lamps in the equipment.                                   | N |
| 4.2.00 | <b>MECHANICAL STRENGTH AND STRESS RELIEF</b>                                               |                                                                            | — |
| 4.2.01 | General                                                                                    |                                                                            | P |
| 4.2.02 | Internal enclosures; steady force test (30 N ± 3 N/5 s)                                    | No internal enclosure.                                                     | N |
| 4.2.03 | External enclosures; steady force test (250 N ± 10 N/5 s)                                  | No external enclosures. Must be checked when installed in the end product. | N |
| 4.2.04 | Steel ball test                                                                            | Equipment for building-in.                                                 | N |
|        | Fall test                                                                                  |                                                                            | — |
|        | Swing test                                                                                 |                                                                            | — |
| 4.2.05 | Drop test<br>- hand-held equipment<br>- desk-top equipment<br>- direct plug-in equipment   | Drop test not applicable.                                                  | N |
| 4.2.06 | Stress relief test; heat test (°C/7 h)                                                     | Equipment does not have an enclosure.                                      | N |
| 4.2.07 | Compliance criteria                                                                        | Considered.                                                                | N |
| 4.2.08 | Mechanical strength of cathode ray tubes                                                   | CRT(s) not used in the equipment.                                          | N |



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|        |                                                                                                                     |                                                                                                                      |   |
|--------|---------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---|
| 4.3.00 | <b>CONSTRUCTION DETAILS</b>                                                                                         |                                                                                                                      | ~ |
| 4.3.01 | Adjustment for different power supply voltages                                                                      | Class III equipment.                                                                                                 | N |
| 4.3.02 | Adjustment of accessible control devices                                                                            | No accessible adjustments.                                                                                           | N |
| 4.3.04 | Production of dust or equipment employing powders, liquids or gases                                                 | The equipment does not produce dust or employ liquids or gases.                                                      | N |
| 4.3.05 | Fixing of knobs, grips, handles, levers and the like                                                                | No knobs, handles or lever.                                                                                          | N |
|        | Test at (N)                                                                                                         |                                                                                                                      | — |
| 4.3.06 | Driving belts and couplings                                                                                         | Class III equipment.                                                                                                 | N |
| 4.3.07 | Retaining of sleeves                                                                                                | Sleeving is not used as supplementary insulation.                                                                    | N |
| 4.3.09 | Wire, screw, nut, washer, spring or similar part becoming loose                                                     | No loosening of parts impairing creepage distances or clearances is likely to occur.                                 | N |
| 4.3.11 | Resistance to oil and grease                                                                                        | Insulation is not exposed to oil, grease etc.                                                                        | N |
| 4.3.12 | Protection against harmful concentration of ionizing radiation, ultraviolet light, laser or flammable liquids/gases | The equipment does not generate ionizing radiation or uses a laser, and does not contain flammable liquids or gases. | N |
| 4.3.13 | Security of screwed connections                                                                                     | Class III equipment.                                                                                                 | N |
| 4.3.14 | Openings in enclosures (See Sub-clauses 4.3.15 and 4.3.16)                                                          | No enclosure. Must be considered in the end use.                                                                     | — |
| 4.3.15 | Openings in tops of enclosures                                                                                      | No enclosure. Must be considered in the end use.                                                                     | — |
| 4.3.16 | Openings in sides of enclosures                                                                                     | No enclosure. Must be considered in the end use.                                                                     | — |
| 4.3.17 | Interchangeable plugs and sockets                                                                                   | No interchangeable plugs/sockets.                                                                                    | N |
| 4.3.18 | Torque test on direct plug-in equipment                                                                             | Not intended to plug directly into a wall socket-outlet.                                                             | N |
| 4.3.19 | Protection against excessive pressure                                                                               | The equipment does not contain liquid.                                                                               | N |
| 4.3.20 | Protection of heating elements in Class I equipment                                                                 | No heating elements provided.                                                                                        | N |
| 4.3.21 | Protection of lithium batteries                                                                                     | No lithium battery provided.                                                                                         | N |
| 4.3.22 | Barrier or screen secured with adhesive                                                                             | No barrier secured by adhesive inside enclosure.                                                                     | N |



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|          |                                                     |                                                                                                                                                               |          |
|----------|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 4.4.00   | <b>RESISTANCE TO FIRE</b>                           |                                                                                                                                                               |          |
| 4.4.01   | Methods of achieving resistance to fire             | Method 1.                                                                                                                                                     | <b>P</b> |
| 4.4.02   | Minimizing the risk of ignition                     | Appropriate use of components and suitable construction. Components are mounted on material of flame class V-0.                                               | <b>P</b> |
| 4.4.03.1 | - 4.4.03.2 Flammability of materials and components | Components and materials have adequate flammability classification.                                                                                           | <b>P</b> |
| 4.4.03.3 | Exemptions                                          | Integrated circuit packages, transistor packages, optocoupler packages, capacitors and other small parts are mounted on material with flammability class V-0. | <b>P</b> |
| 4.4.03.4 | Wiring harnesses                                    | No wiring.                                                                                                                                                    | <b>N</b> |
| 4.4.03.5 | Cord anchorage bushings                             | Class III equipment.                                                                                                                                          | <b>N</b> |
| 4.4.03.6 | Air filter assemblies                               | No air filters in the equipment.                                                                                                                              | <b>N</b> |
| 4.4.04   | Materials for enclosures and for decorative parts   | To be evaluated in end use.                                                                                                                                   | —        |
| 4.4.05   | Conditions for fire enclosures                      | The fire enclosure is required to cover all parts. To be evaluated in the end use.                                                                            | <b>N</b> |
| 4.4.05.1 | Components requiring a fire enclosure               |                                                                                                                                                               | —        |
| 4.4.05.2 | Components not requiring a fire enclosure           |                                                                                                                                                               | —        |
| 4.4.06   | Fire enclosure construction                         | To be evaluated in end use.                                                                                                                                   | <b>N</b> |
| 4.4.07   | Doors or covers in fire enclosures                  | To be evaluated in end use.                                                                                                                                   | <b>N</b> |
| 4.4.08   | Flammable liquids                                   | No flammable liquids within the equipment.                                                                                                                    | <b>N</b> |



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|                             |                                                                             |                                                            |          |
|-----------------------------|-----------------------------------------------------------------------------|------------------------------------------------------------|----------|
| 5.0.00                      | <b>THERMAL AND ELECTRICAL REQUIREMENTS</b>                                  |                                                            |          |
| 5.1.00                      | <b>HEATING</b>                                                              | Class III equipment, no heating test considered necessary. | <b>N</b> |
| 5.2.00                      | <b>EARTH LEAKAGE CURRENT</b>                                                | Class III equipment, earth leakage test not required.      | <b>N</b> |
| 5.3.0                       | <b>ELECTRIC STRENGTH</b>                                                    | Refer also to Sub-clause 6.4.2.                            |          |
| 5.3.1                       | - 5.3.2 General. Test procedure                                             |                                                            | <b>P</b> |
| Location                    |                                                                             | Test voltage                                               | Result   |
| TNV – SELV                  |                                                                             | 1500 Vac                                                   | PASS     |
| TNV – mylar sheet with foil |                                                                             | 1500 Vac                                                   | PASS     |
| Comments                    |                                                                             |                                                            |          |
|                             | Testing conducted after humidity treatment for Singapore country deviation. |                                                            |          |
| 5.4.00                      | <b>ABNORMAL OPERATING AND FAULT CONDITIONS</b>                              |                                                            |          |
| 5.4.01                      | Equipment designed to limit risk of fire or electric shock                  | Considered.                                                | <b>P</b> |
| 5.4.02                      | Motors (See Annex B)                                                        | None provided.                                             | <b>N</b> |
| 5.4.03                      | Transformers (See Sub-clause 5.4.6 and Annex C)                             | Class III equipment.                                       | <b>N</b> |
| 5.4.04                      | Operational insulation                                                      |                                                            | <b>P</b> |
|                             | Method used                                                                 | Method C: Components mounted on min. V-1 material.         | <b>P</b> |
| 5.4.05                      | Electromechanical components                                                | No electromechanical components in secondary circuits.     | <b>N</b> |
| 5.4.06                      | Fault conditions for other components and circuits                          | No fault tests considered necessary.                       | <b>N</b> |
| 5.4.07                      | Tests under any expected condition in normal use and foreseeable misuse     | No foreseeable misuse possible.                            | <b>N</b> |
| 5.4.08                      | Equipment for unattended use, having thermostats, temperature limiters etc. | No thermostats, temp. limiters or thermal cut-outs.        | <b>N</b> |
| 5.4.09                      | Compliance                                                                  |                                                            | <b>P</b> |
| 5.4.10                      | Thermoplastic parts                                                         | No thermoplastic parts carrying hazardous voltages.        | <b>N</b> |

|         |                                                                                                                                       |                                                                                                                                                                                                                                       |          |
|---------|---------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 6.0.00  | <b>CONNECTION TO TELECOMMUNICATION NETWORKS</b>                                                                                       |                                                                                                                                                                                                                                       |          |
| 6.1.00  | General                                                                                                                               | TNV circuits used for connection to a telecommunication network.                                                                                                                                                                      | <b>P</b> |
| 6.2.00  | <b>TNV CIRCUITS</b>                                                                                                                   |                                                                                                                                                                                                                                       |          |
| 6.2.1   | TNV circuit characteristics and requirements                                                                                          |                                                                                                                                                                                                                                       | —        |
| 6.2.1.1 | Limits                                                                                                                                | Complies with requirements of a TNV-3 circuit.                                                                                                                                                                                        | <b>P</b> |
|         | a) TNV-1 circuits                                                                                                                     | Not TNV-1.                                                                                                                                                                                                                            | <b>N</b> |
|         | b) TNV-2 and TNV-3 circuits                                                                                                           | For voltages other than telephone ringing signals, combination of a.c. and d.c. values are such that :<br>$\frac{U_{ac}}{70,7} + \frac{U_{dc}}{120} \leq 1$ and limits of Figure 15 is not exceeded.<br>No ringing signals generated. | <b>P</b> |
| 6.2.1.2 | Separation from other circuits and from accessible parts                                                                              | Parts being separated: SELV and TNV-3.                                                                                                                                                                                                | <b>P</b> |
|         | Voltage (V) on SELV circuits, TNV-1 circuits and accessible conductive parts in event of single insulation fault or component failure | Measurements : See the table in Sub-clause 2.9.                                                                                                                                                                                       | <b>P</b> |
| 6.2.1.3 | Operating voltages generated externally                                                                                               | No testing required.                                                                                                                                                                                                                  | <b>N</b> |
|         | Voltage (V) on SELV circuits, TNV-1 circuits and accessible conductive parts                                                          |                                                                                                                                                                                                                                       | —        |
| 6.2.1.4 | Separation from hazardous voltages                                                                                                    | Equipment for building-in, to be evaluated in end use.                                                                                                                                                                                | <b>N</b> |
|         | Insulation between TNV circuit and circuit at hazardous voltage                                                                       |                                                                                                                                                                                                                                       | —        |
| 6.2.1.5 | Connection of TNV circuits to other circuits                                                                                          | This design is not used.                                                                                                                                                                                                              | <b>N</b> |
| 6.2.2   | Protection against contact with TNV circuits                                                                                          | Must be checked in end use.                                                                                                                                                                                                           | <b>N</b> |
| 6.2.2.1 | Accessibility                                                                                                                         | Must be checked in end use.                                                                                                                                                                                                           | <b>N</b> |
| 6.2.2.2 | Battery compartments                                                                                                                  | No battery compartment.                                                                                                                                                                                                               | <b>N</b> |

|         |                                                                                                                                                                                    |                                                                                                                                                                                               |          |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 6.3.00  | <b>PROTECTION OF<br/>TELECOMMUNICATION<br/>NETWORK SERVICE<br/>PERSONNEL, AND USERS OF<br/>OTHER EQUIPMENT<br/>CONNECTED TO THE<br/>NETWORK, FROM HAZARDS IN<br/>THE EQUIPMENT</b> |                                                                                                                                                                                               |          |
| 6.3.1   | Protection from hazardous voltages                                                                                                                                                 | Circuits in the equipment intended to be connected to a telecommunication network complies with requirements for a TNV-circuit.                                                               | <b>P</b> |
| 6.3.2   | Use of protective earthing                                                                                                                                                         | Modem module for building-in, Class III.<br>Insulation does not rely on Ground.                                                                                                               | <b>N</b> |
| 6.3.03  | Separation of the telecommunication network from earth                                                                                                                             | Must also be checked in end use.                                                                                                                                                              | <b>P</b> |
| 6.3.3.1 | Requirements                                                                                                                                                                       | Insulation between circuitry connected to a telecomm. network and any parts or circuits that may be earthed complies with the requirements of supplementary insulation for a primary circuit. | <b>P</b> |
|         | Insulation between circuitry connected to a telecomm.network and circuitry that may be earthed                                                                                     | Creepage distances and clearances, see Sub-clause 2.9.0.                                                                                                                                      | <b>P</b> |
|         | Capacitors                                                                                                                                                                         | Capacitors between TNV and SELV/GND are tested and certified.                                                                                                                                 | <b>P</b> |
|         | Sparkover voltage of surge suppressors                                                                                                                                             | There are no surge suppressors between TNV and accessible metal parts.                                                                                                                        | <b>N</b> |
|         | Test according to Figure 17                                                                                                                                                        | No components have been removed.                                                                                                                                                              | <b>N</b> |
| 6.3.3.2 | Exclusions                                                                                                                                                                         | No exclusions are applicable.                                                                                                                                                                 | <b>N</b> |
| 6.3.4   | Leakage currents to and from telecommunication networks                                                                                                                            |                                                                                                                                                                                               | —        |
| 6.3.4.1 | Limitation of the leakage current to a telecommunication network                                                                                                                   | The TNV-3 interface is isolated from earth and the mains; negligible current would flow during the tests of Sub-clause 6.3.4.1.                                                               | <b>P</b> |
| 6.3.4.2 | Summation of leakage currents from a telecommunication network                                                                                                                     |                                                                                                                                                                                               | —        |



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| 6.4.00  | <b>PROTECTION OF EQUIPMENT<br/>USERS FROM OVERVOLTAGES<br/>ON TELECOMMUNICATION<br/>NETWORKS</b>                                              |                                                                                                                                                                                                                                                                                    | —        |
| 6.4.1   | Separation requirements                                                                                                                       | Separation between a TNV-3 circuit and the following parts:<br>a) unearthed conductive parts and non-conductive parts expected to be held or touched,<br>b) parts and circuitry that can be touched by the test finger,<br>c) circuitry provided for connection to other equipment | —        |
| 6.4.2   | Test procedure                                                                                                                                |                                                                                                                                                                                                                                                                                    | —        |
| 6.4.2.1 | Impulse test                                                                                                                                  |                                                                                                                                                                                                                                                                                    | —        |
|         | Separation between TNV-1 circuits/<br>TNV-3 circuits and:                                                                                     | The equipment complies with the tests below.                                                                                                                                                                                                                                       | <b>P</b> |
|         | a) unearthed conductive parts/ non-<br>conductive parts of the equipment<br>which are held or touched during<br>normal use:<br>Test at 2,5 kV | Must be checked in end use.                                                                                                                                                                                                                                                        | <b>N</b> |
|         | b) parts and circuitry that can be<br>touched by the test finger:<br>Test at 1,5 kV                                                           | Must be checked in end use.                                                                                                                                                                                                                                                        | <b>N</b> |
|         | c) circuitry which is provided for<br>connection of other equipment:<br>Test at 1,5 kV                                                        | Capacitors bridging supplementary insulation tested at 2.5kV, complies with Sub-clause 6.4.2.3.                                                                                                                                                                                    | <b>P</b> |
| 6.4.2.2 | Electric strength test                                                                                                                        | See Clause 5.3 (tested at 1500Vac)                                                                                                                                                                                                                                                 | —        |
|         | Separation between<br>telecommunication network<br>conductors and:                                                                            | The equipment complies with the tests below.                                                                                                                                                                                                                                       | <b>P</b> |
|         | a) unearthed conductive parts/non-<br>conductive parts of the equipment<br>which are held or touched during<br>normal use:<br>Test at 1,5 kV  | Must be checked in end use.                                                                                                                                                                                                                                                        | <b>N</b> |
|         | b) parts and circuitry that can be<br>touched by the test finger:<br>Test at 1,0 kV                                                           | Must be checked in end use.                                                                                                                                                                                                                                                        | <b>N</b> |
|         | c) circuitry which is provided for<br>connection of other equipment:<br>Test at 1,0 kV                                                        | Tested at 1500 Vac.                                                                                                                                                                                                                                                                | <b>P</b> |
| 6.4.2.3 | Compliance criteria                                                                                                                           | No breakdown.                                                                                                                                                                                                                                                                      | <b>P</b> |



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| 6.5      | <b>PROTECTION OF THE TELECOMMUNICATION WIRING SYSTEM FROM OVERHEATING</b> | The equipment does not provide power over telecommunication wiring system to remote equipment. | <b>N</b> |
|          | Maximum continuous output current (A)                                     |                                                                                                | —        |
|          |                                                                           |                                                                                                |          |
| ANNEX A  | <b>TESTS FOR RESISTANCE TO HEAT AND FIRE</b>                              | All materials have suitable flammability ratings, no testing required.                         | <b>N</b> |
| ANNEX B  | <b>MOTOR TESTS UNDER ABNORMAL CONDITIONS</b>                              | No motors.                                                                                     | <b>N</b> |
| ANNEX C  | <b>TRANSFORMERS</b>                                                       | No transformers.                                                                               | <b>N</b> |
| ANNEX H  | <b>IONIZING RADIATION</b>                                                 | No components emitting ionizing radiation.                                                     | <b>N</b> |
| APPENDIX | <b>LITHIUM BATTERY</b>                                                    | No lithium battery.                                                                            | <b>N</b> |
| APPENDIX | <b>OPTO ELECTRONIC DEVICES</b>                                            | No opto electronic devices.                                                                    | <b>N</b> |



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| APPENDIX                                                                                                                                                                                                                                                                                                                                                                                             | <b>EN 60950 : 1992 + A1 : 1993 + A2 : 1993 + A3 : 1995 + A4 : 1997 + A11 : 1997</b><br><b>TEST REPORT</b><br><b>(IEC Publication 60950, 2nd edition, 1991 + Amd. 1, 1992 + Amd. 2, 1993 + Amd. 3, 1995 + Amd. 4, 1996)</b><br>CENELEC Common Modifications, Special National conditions, National deviations and Other information                                                                                                                                                                                                         |                                                              |   |
| <b>EXPLANATION FOR ABBREVIATIONS</b><br>C = CENELEC Common Modification, S = Special National condition, D = National deviation, F = Other information;<br>AT = Austria, GB = Great Britain, CH = Switzerland, DE = Germany, DK = Denmark, FI = Finland, FR = France, NO = Norway, SE = Sweden<br>P = Pass, F = Fail, N = Not applicable, — = No verdict required; placed in the column to the right |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                              |   |
| 1.2.04.1 S                                                                                                                                                                                                                                                                                                                                                                                           | (DK) In Denmark, certain types of Class I appliances (see Sub-clause 3.2.1) may be provided with a plug not establishing earthing continuity when inserted into Danish socket-outlets.                                                                                                                                                                                                                                                                                                                                                     | Class III equipment.                                         | N |
| 1.5.01 D                                                                                                                                                                                                                                                                                                                                                                                             | (SE) Add the following:<br>NOTE: Switches containing mercury such as thermostats, relays and level controllers are not allowed.                                                                                                                                                                                                                                                                                                                                                                                                            | There are no components containing mercury in the equipment. | N |
| 1.6.04 S                                                                                                                                                                                                                                                                                                                                                                                             | (NO) In Norway, due to the IT power system used, capacitors are required to be rated for the applicable phase-to-phase voltage (230 V)                                                                                                                                                                                                                                                                                                                                                                                                     | Class III equipment.                                         | N |
| 1.7.00 F                                                                                                                                                                                                                                                                                                                                                                                             | (SE) For a separate power supply unit, the following text shall be supplied with the unit:<br>"Endast för kontorsmaskin"                                                                                                                                                                                                                                                                                                                                                                                                                   | Class III equipment.                                         | N |
| 1.7.00 F                                                                                                                                                                                                                                                                                                                                                                                             | (DE) For a separate power supply unit, the following text shall be included in the User's Manual:<br>"For IEC 950 products only"                                                                                                                                                                                                                                                                                                                                                                                                           | Class III equipment.                                         | N |
| 1.7.02 S                                                                                                                                                                                                                                                                                                                                                                                             | (NO) If separation between the mains and a communication system/network, other than public telecommunication networks, relies upon connection to safety earth, the equipment shall have a marking stating that it must be connected to an earthed mains socket-outlet.<br>NOTE: For requirements for equipment to be connected to a public telecommunication network, see 6.2.1.4.<br><br>Applicable text is:<br>"Apparatet må kun tilkoples jordet stikkontakt" or<br>"Jordet stikkontakt skal benyttes når apparatet tilkoples datanett" | Class III equipment.                                         | N |



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| 1.7.02 S | (SE) If the separation between the mains and a SELV terminal relies upon connection to the safety earth, the apparatus shall have a marking stating that it must be connected to an earthed mains socket-outlet when a SELV circuit is connected to a network passing both unearthed and earthed electrical environment.<br>The marking text shall be in Swedish and as follows:<br>"Apparaten skall anslutas till jordat uttag när den ansluts till ett nätverk"                                                                                                                                                                                                                     | Class III equipment.                             | N |
| 1.7.02 D | (DK) Supply cords of Class I equipment, which is delivered without a plug, must be provided with a visible tag with the following text:<br>"Vigtigt. Lederen med grøn/gul isolation må kun tilsluttes en klemme mærket  eller  "<br>If essential for the safety of the equipment, the tag must in addition be provided with a diagram, which shows the connection of the other conductors, or be provided with the following text:<br>"For tilslutning af de øvrige ledere, se medfølgende installationsvejledning" | Class III equipment.                             | N |
| 1.7.05 S | (DK) Socket-outlets for providing power to other equipment shall be in accordance with the Heavy Current Regulations, Section 107-2-D1, Standard Sheet DK 1-3a, DK 1-5a or DK 1-7a, when used on Class I equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Class III equipment.                             | N |
| 1.7.05 D | (DK) Class II equipment shall not be fitted with socket-outlets for providing power to other equipment                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Class III equipment.                             | N |
| 1.7.11 C | Replace the reference to clause "2.7.2" by "2.7"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Considered.                                      | — |
| 1.7.14 D | (DE) Directions for use with rules to prevent certain hazards for (among others) maintenance of the technical labour equipment, also for imported technical labour equipment shall be written in German language.<br>NOTE: Of this requirement, rules for use even only by service personnel are not exempted                                                                                                                                                                                                                                                                                                                                                                         | Must be checked in end use.                      | N |
| 1.7.17 F | (DK, NO, SE, FI) Warning texts for lithium batteries, see Appendix 2 in EMKO-TSE (74-SEC)207/94<br>Languages:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | There is no lithium battery in the equipment.    | N |
| 1.7.17 D | (CH) Annex 4.10 of SR 814.013 (Ordinance on environmentally hazardous substances) applies for batteries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | There is no battery in the equipment.            | N |
| 2.3.03 S | (FR) Method 3 is not acceptable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Class III equipment.                             | N |
| 2.3.05 S | (NO) Marking and insulation requirements according to Annex ZB, Sub-clauses 1.7.02 and 6.2.01.4b) apply                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Class III equipment, must be checked in end use. | N |
| 2.5.02 S | (DK, NO) Add after the first paragraph:<br>"The above exception is not acceptable in pluggable equipment type A"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Class III equipment.                             | N |



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| 2.7.01 C   | <p>Replace the Sub-clause as follows:<br/> <i>Basic requirements</i><br/>           To protect against excessive current, short-circuits and earth faults in primary circuits, protective devices shall be included either as integral parts of the equipment or as parts of the building installation, subject to the following a), b), c) and d):</p> <p>a) Except as detailed in b) and c), protective devices necessary to comply with the requirements of 5.4 shall be included as integral part of the equipment.</p> <p>b) For components in series with the mains input to the equipment such as the supply cord, appliance coupler, r.f.i. filter and switch, short circuit and earth fault protection may be provided by protective devices in the building installation.</p> <p>c) It is permitted for equipment with a rated current exceeding 16 A, which is pluggable type B or permanently connected equipment, to rely on dedicated overcurrent and short circuit protection in the installation, provided that the means of protection, e.g. fuses or circuit breakers, is fully specified in the installation instruction.</p> <p>d) If reliance is placed on protection in the building installation, the installation instructions shall comply with 1.7.11, except that for pluggable equipment type A the building installation shall be regarded as providing protection in accordance with the rating of the wall socket outlet and 1.7.11 does not apply</p> | Class III equipment. | N |
| 2.7.02 C   | This sub-clause has been declared: Void                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Considered.          | — |
| 2.9.01 S   | (NO) Due to the IT power systems used, the mains supply voltage is considered to be equal to the phase-to-phase voltage (230 V)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Class III equipment. | N |
| 2.9.04.1 C | Fourth dashed paragraph, replace “nominal” by “normal”                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Considered.          | — |



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| 2.9.04.2 C | Amend the last line on page 117a as follows:<br>"Solvent-based enamel coating on winding wire is not considered to be insulation in thin sheet material"<br>Add a new sentence below the text on page 117a as follows:<br>"Requirements for wound components are given in 2.9.4.4"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Considered.                                     | N |
| 2.9.04.4 C | Modify the title as follows: <i>Wound components</i><br>Replace the first paragraph and the two dashed paragraphs as follows:<br>"Unless one of the following situations applies, interleaved basic, supplementary or reinforced insulation complying with 2.9.4.1 or 2.9.4.2 shall be provided between the windings.<br>Basic, supplementary, double or reinforced insulation is permitted in a wound component without interleaved insulation using one of the following situations:<br>- the insulation on the winding wire complies with 2.9.4.1; or<br>- the winding wire complies with Annex U; or<br>- the insulation between the windings is provided for separation between TNV circuits and other parts in compliance with 6.4.1.<br>NOTE: Examples of insulation of winding wire complying with Annex U are polyimide and FEP" | Wound components are not used in the equipment. | N |
| 3.2.01 S   | (DK) Supply cords of single-phase equipment having a rated current not exceeding 10 A shall be provided with a plug according to the Heavy Current Regulations Section 107-2-D1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Class III equipment.                            | N |
|            | Class I equipment provided with socket-outlets with earth contacts or which are intended to be used in locations where protection against indirect contact is required according to the wiring rules, shall be provided with a plug in accordance with standard sheet DK 2-1a or DK 2-5a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Class III equipment.                            | N |
|            | If poly-phase equipment and single-phase equipment having a rated current exceeding 10 A is provided with a supply cord with a plug, this plug shall be in accordance with the Heavy Current Regulations Section 107-1-D1 or EN 60 309-2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Class III equipment.                            | N |
| 3.2.01 S   | (CH) Supply cords of equipment having a rated current not exceeding 10 A shall be provided with a plug complying with SEV 1011 or IEC 884-1 and one of the following dimension sheets:<br>SEV 6532-2.1991 Plug Type 15 3P+N+PE 250/400 V, 10 A<br>SEV 6533-2.1991 Plug Type 11 L+N 250 V, 10A<br>SEV 6534-2.1991 Plug Type 12 L+N+PE 250 V, 10 A<br>EN 60 309 applies for plugs for currents exceeding 10 A.                                                                                                                                                                                                                                                                                                                                                                                                                              | Class III equipment.                            | N |



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| 3.2.01 S | (GB) Apparatus which is fitted with a flexible cable or cord and is designed to be connected to a mains socket conforming to BS 1363 by means of that flexible cable or cord and plug, shall be fitted with a "standard plug" in accordance with Statutory Instrument 1786 :1994 - The Plugs and Sockets etc. (Safety) Regulations 1994, unless exempted by those regulations.<br>NOTE: "standard plug" is defined in SI 1786 : 1994 and essentially means an approved plug conforming to BS 1363 or an approved conversion plug. | Class III equipment.                    | N |
| 3.2.02 C | Delete the NOTE and in table 10, delete the conduit sizes in parentheses                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Class III equipment.                    | N |
| 3.2.04 C | Replace<br>"245 IEC 53" by "H05 RR-F"<br>"227 IEC 52" by "H03 VV-F or H03 VVH2-F"<br>"227 IEC 53" by "H05 VV-F or H05 VVH2-F2"<br>In table 11, replace the first four lines by the following:<br>Up to and including 6 0.75 1)<br>Over 6 up to and including 10 1.0 (0.75) 2)<br>Over 10 up to and including 16 1.5 (1.0) 3)<br>In the Conditions applicable to table 11, delete the words "in some countries" in condition 1).<br>In the NOTE delete the second sentence.                                                        | Class III equipment.                    | N |
| 3.2.04 S | (GB) A power supply cord with conductor of 1,25 mm <sup>2</sup> is allowed for equipment with a rated current over 10 A and up to and including 13 A                                                                                                                                                                                                                                                                                                                                                                              | Class III equipment.                    | N |
| 3.3.05 C | In table 13, delete the fourth line - conductor sizes for 10 to 13 A, and replace with the following:<br>"Over 10 up to and including 16: 1,5 to 2,5<br>1,5 to 4"<br>Delete the fifth line - conductor sizes for 13 to 16 A                                                                                                                                                                                                                                                                                                       | Class III equipment.                    | N |
| 3.3.05 S | (GB) The range of conductor sizes of flexible cords to be accepted by terminals for equipment with a rated current of over 10 A and up to and including 13 A is:<br>1,25 mm <sup>2</sup> to 1,5 mm <sup>2</sup> nominal cross- sectional area                                                                                                                                                                                                                                                                                     | Class III equipment.                    | N |
| 4.3.12 C | (A11) For equipment using LEDs or lasers, compliance is checked according to EN 60825-1.                                                                                                                                                                                                                                                                                                                                                                                                                                          | No LEDs.                                | N |
| 4.3.18 S | (GB) This test should be performed using an appropriate socket-outlet with an earthing contact                                                                                                                                                                                                                                                                                                                                                                                                                                    | Class III equipment.                    | N |
| 5.4.09 S | (NO) The electric strength test includes testing of basic insulation in Class I pluggable equipment Type B and permanently connected equipment                                                                                                                                                                                                                                                                                                                                                                                    | The equipment is regarded as Class III. | N |



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| 6.2.01.2 S  | (NO, SE) Supplementary insulation for a primary circuit is required between any TNV circuit and any circuit that has a connection to a protective earthing terminal.<br>In NO, this requirement does not apply to permanently connected equipment or to pluggable equipment type B, installed in areas where equipotential bonding has been applied, e.g. a telecommunication Central Office.<br>In SE, this requirement does not apply to permanently connected equipment or pluggable equipment type B. | The unit fulfil supplementary insulation, see the main test report. | P |
| 6.2.01.4b S | (NO) Method b) is not permitted.<br>Insulation between parts conductively connected to the supply mains and parts connected to a public telecommunication network shall comply with the requirements for double or reinforced insulation.                                                                                                                                                                                                                                                                 | Modem module for building-in, class III.                            | N |
| 6.2.01.4b S | (FI) Method b) is permitted only for permanently connected equipment or for pluggable equipment type B                                                                                                                                                                                                                                                                                                                                                                                                    | Modem module for building-in, class III.                            | N |
| 6.2.01.5 S  | (NO) Requirements according to Annex ZB, sub-clause 6.2.1.4b), apply                                                                                                                                                                                                                                                                                                                                                                                                                                      | Considered.                                                         | N |
| 6.3.03.1 S  | (NO) Requirements according to Annex ZB, sub-clauses 6.2.01.2, 6.2.01.4b) and 6.3.03.2 apply                                                                                                                                                                                                                                                                                                                                                                                                              | Supplementary.                                                      | P |
| 6.3.03.1 S  | (SE) Requirements according to Annex ZB, sub-clause 6.2.01.2, apply                                                                                                                                                                                                                                                                                                                                                                                                                                       | Supplementary.                                                      | P |
| 6.3.03.2 S  | (NO) Exclusions are applicable for permanently connected equipment and pluggable equipment type B                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                     | N |
| 6.4.02.1 D  | (AT) A value of $U_c = 2,0$ kV is used in cases b) and c)                                                                                                                                                                                                                                                                                                                                                                                                                                                 | The equipment was tested to Sub-clause 6.4.2.2.                     | N |
| Annex C C   | Page 283, in the paragraph below Table C.1, replace "...power to the motor is ...." by "...power to the transformer is ...."                                                                                                                                                                                                                                                                                                                                                                              | Considered.                                                         | N |
| Annex D C   | Measuring instrument used                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Class III equipment.                                                | N |



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| Annex H D | <p>(DE)</p> <p>a) A licence is required by those who operate an X-ray emission source.</p> <p>b) A licence in accordance with clause 1 is not required by those who operate an X-ray emission source on which the electron acceleration voltage does not exceed 20 kV if</p> <ol style="list-style-type: none"> <li>1) the local dose rate at a distance of 0,1 m from the surface does not exceed 1 <math>\mu\text{Sv} / \text{h}</math> and</li> <li>2) it is adequately indicated on the X-ray emission source that <ol style="list-style-type: none"> <li>i) X-rays are generated and</li> <li>ii) the electron acceleration voltage must not exceed the maximum value stipulated by the manufacturer or importer.</li> </ol> </li> </ol> <p>c) A licence in accordance with Clause 1 is also not required by persons who operate an X-ray emission source on which the electron acceleration voltage exceeds 20 kV if</p> <ol style="list-style-type: none"> <li>1) the X-ray emission source has been granted a type approval and</li> <li>2) it is adequately indicated on the X-ray emission source that <ol style="list-style-type: none"> <li>i) X-rays are generated</li> <li>ii) the device stipulated by the manufacturer or importer guarantees that the maximum permissible local dose rate in accordance with the type approval is not exceeded and</li> <li>iii) the electron acceleration voltage must not exceed the maximum value stipulated by the manufacturer or importer.</li> </ol> </li> </ol> <p>d) Furthermore, a licence in accordance with Clause 1 is also not required by persons who operate X-ray emission sources on which the electron acceleration voltage does not exceed 30 kV if</p> <ol style="list-style-type: none"> <li>1) the X-rays are generated only by intrinsically safety CRTs complying with Enclosure III, No. 6,</li> <li>2) the values stipulated in accordance with Enclosure III, No. 6.2 are limited by technical measures and specified in the device and</li> <li>3) it is adequately indicated on the X-ray emission source that the X-rays generated are adequately screened by the intrinsically safe CRT.</li> </ol> | The unit does not emit X-ray radiation. | N<br>— |
| Annex J C | Page 317, in table J.1, electrochemical potential between Zinc, zinc alloys and Magnesium, magnesium alloys, replace "0.05" by "0.5"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Considered.                             | —      |
| Annex N C | Page 335, in the title between parentheses, replace "2.9.9" by "2.9.1"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Considered.                             | —      |



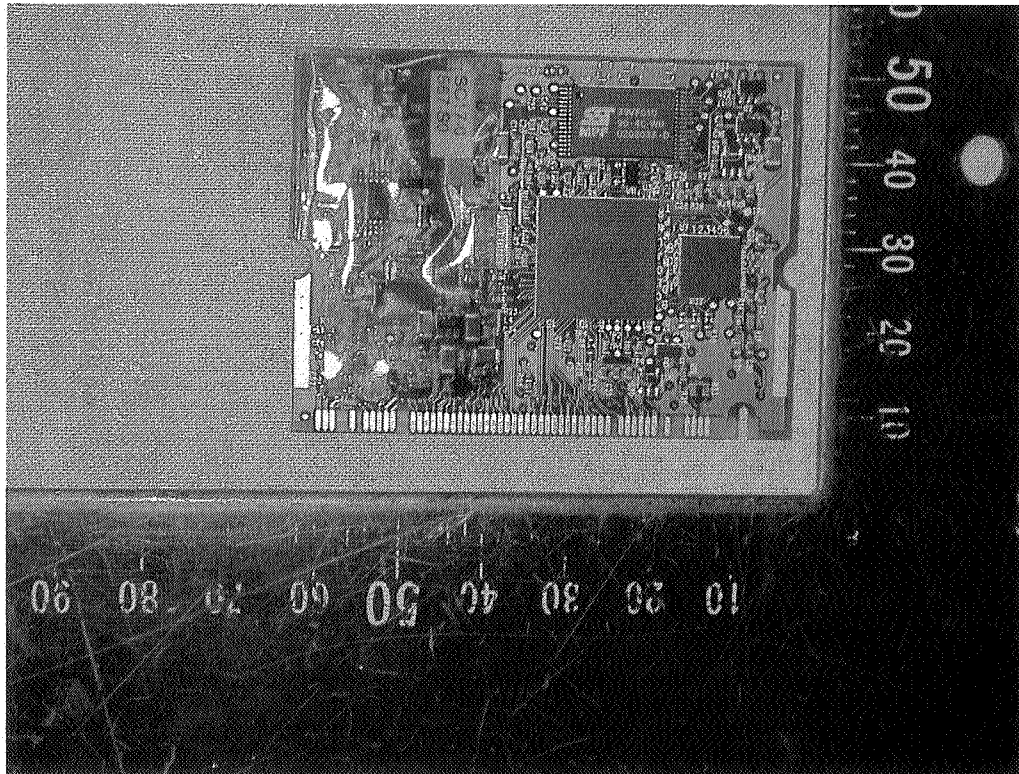
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|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |             |   |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|---|
| Annex P C | Replace the text of this annex by:<br>See annex ZA                                                                                                                                                                                                                                                                                                                                                                                                                              | Considered. | — |
| Annex Q C | Add the following notes for the standards indicated:<br><br>IEC 60127-1:<br>NOTE: Harmonized as EN 60127-1:1991 (not modified)<br>IEC 60127-2:<br>NOTE: Harmonized as EN 60127-2:1991 (not modified)<br>IEC 60127-3:<br>NOTE: Harmonized as EN 60127-3:1991 (not modified)<br>IEC 60529:<br>NOTE: Harmonized as EN 60529:1991 (not modified)<br>IEC 60707:<br>NOTE: Harmonized as HD 441:1983 (not modified)<br>IEC 61032:<br>NOTE: Harmonized as HD 601 S1:1991 (not modified) | Considered. | — |
| Annex V C | Page 359, in the figure, replace "SLEV CIRCUIT" by "SELV CIRCUIT"                                                                                                                                                                                                                                                                                                                                                                                                               | Considered. | — |

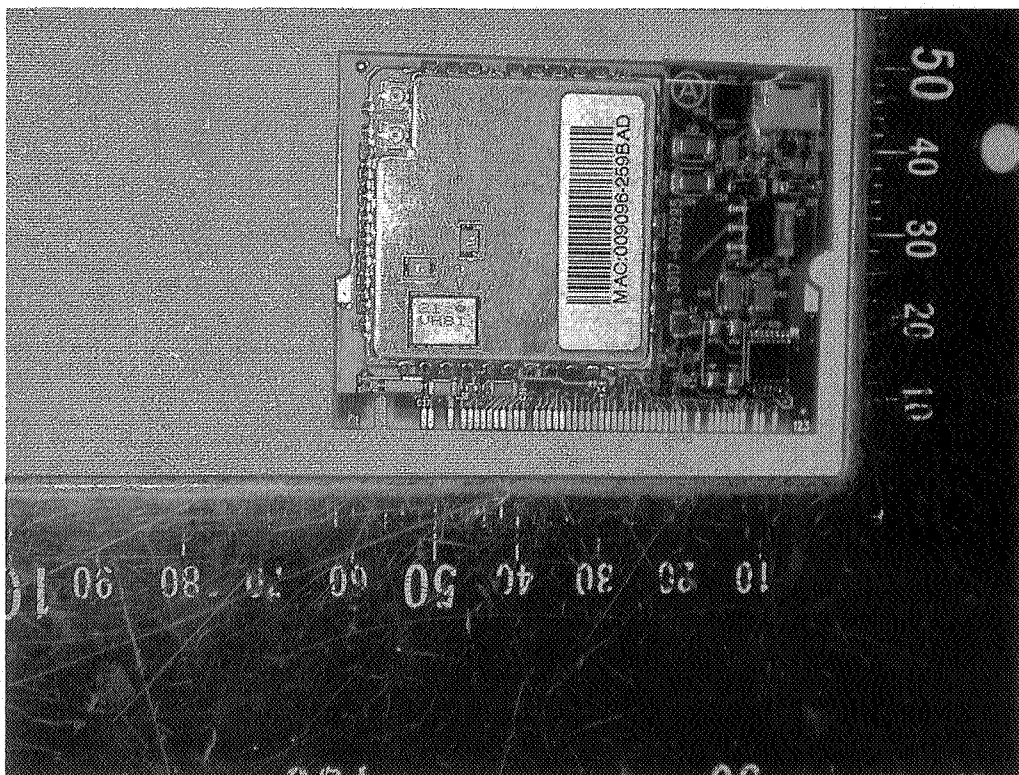


## Photos

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Top view with mylar sheet

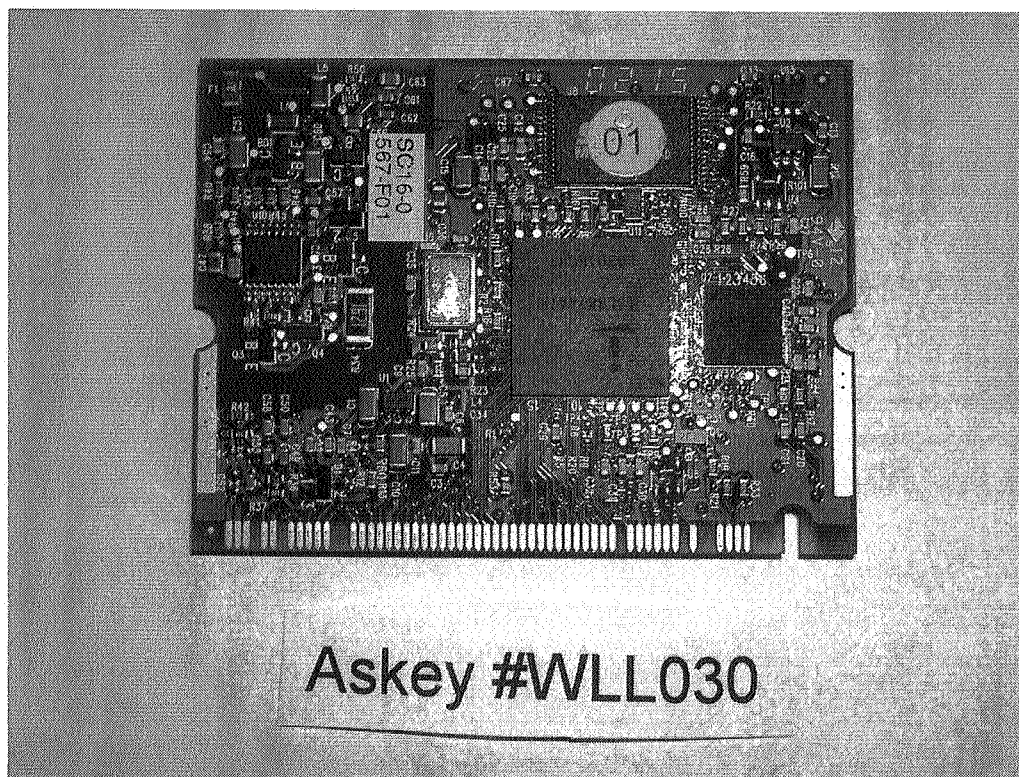


Bottom view with mylar sheet



## Photos

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## APPENDIX: AUSTRALIAN DEVIATIONS

**Test results according to CB BULLETIN No. 101A, December 2001  
and Appendix 1 to AS/NZS 3260 (IEC 60950 incl. Amd. 4)**

| Clause   | Requirement - Test                                                                                                        | Result – Remark                                    | Verdict |
|----------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|---------|
| 1.2.12.2 | Add: TT power systems are not permitted in Australia                                                                      | Class III equipment.                               | N       |
| 1.2.12.3 | Add: IT power systems are not permitted in Australia                                                                      | Class III equipment.                               | N       |
| 1.5.1    | Add to paragraph 1:<br>or the relevant Australian Standard.                                                               | All critical components are IEC certified.         | P       |
| 1.5.2    | Add to the first and third dashed items after the words "IEC component standard":<br>or the relevant Australian Standard. | All critical components are IEC certified.         | P       |
| 1.7.14   | Add to paragraph 1:<br>In Australia all safety instructions shall be in English.                                          | All instructions concerning safety are in English. | P       |
| 2        | Add after Clause 2:<br>For the limit of direct current from a.c. appliances, refer to Appendix 3.                         | Ref. Appendix 3.                                   | N       |
| 2.3.7    | Add to NOTE2: Australia.                                                                                                  | Class III equipment.                               | N       |
| 3.2.2    | Substitute for Table 10:<br>For sizes of cables and conduits in Australia, refer to AS 3000.                              | Class III equipment.                               | N       |
| 3.2.4    | Substitute for Table 11:<br>For sizes of conductors in power supply cords refer to TABLE 11:                              | Class III equipment.                               | N       |
| 4.4.1    | For the Australian alternative resistance to fire test, refer to Appendix 2.                                              | Not applied for Appendix 2.                        | N       |



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|            |                                                                                                                          |                                                                                |   |
|------------|--------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|---|
| 6.4.2      | Replace the first paragraph by: In Australia, compliance with 6.4.1 is checked by the tests of both 6.4.2.1 and 6.4.2.2. | C is used. Equipment is not prepared for connection to hand-held and headsets. | P |
|            | Delete the fourth paragraph: "The choice of the tests ... manufacturer."                                                 | Tested after Sub-cl. 6.4.2.1 and Sub-cl. 6.4.2.2                               | P |
| 6.4.2.1    | Replace Clause 6.4.2.1 by:                                                                                               |                                                                                |   |
|            | Impulse test<br>In case (a) of 6.4.1:<br>7 kV : hand-held telephones and headsets<br>2.5 kV : other equipment            |                                                                                | N |
|            | In cases (b) and (c) of 6.4.1: 1.5 kV                                                                                    | Capacitors bridging supplementary insulation tested at 2.5 kV after annex N    | P |
| 6.4.2.2    | Replace 6.4.2.2 by:<br>Electric strength test:                                                                           | See the main report.                                                           | P |
|            | In case (a) of 6.4.1: 3 kV                                                                                               |                                                                                | N |
|            | In cases (b) and (c) of 6.4.1: 1.5 kV                                                                                    | Tested at 1.5 kV.                                                              | P |
| Annex A    | Add after Annex title: For an alternative resistance to fire test, refer to Appendix 2.                                  | Ref. comments to cl. 4.4.                                                      | N |
| Appendix 2 | Add Appendix:<br>Alternative resistance to fire test                                                                     | Ref. comments to cl. 4.4.                                                      | N |
| Appendix 3 | Add Appendix:<br>D.C. component from A.C. equipment.                                                                     | Class III equipment.                                                           | N |



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**APPENDIX: CANADIAN DEVIATIONS****Test results according to CB BULLETIN No. 101A, December 2001**

| Clause | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Result - Remark                      | Verdict |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---------|
|        | <b>The following Canadian national differences are based on the requirements of the Canadian Electrical Code (CEC)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                      |         |
| 1.1.1  | All equipment design and installations are required to be in accordance with the Canadian Electrical Code (CEC), Part 1, CAN/CSA C22.1, and with National Electrical Code (NEC), ANS/NFPA 70, and, unless marked or otherwise identified, the standard for the Protection of Electronic Computer/Data-Processing Equipment, ANSI/NFPA 75.                                                                                                                                                                                                                                                                                                  | Class III equipment.                 | N       |
| 1.7.1  | Equipment for use on a.c. mains supply systems with a neutral and more than one phase conductor (e.g. 120/240 V, 3-wire) require a special marking format for electrical ratings.<br>A voltage rating that exceeds an attachment plug cap rating is only permitted if it does not exceed the extreme operating conditions in Table 2 of CAN/CSA C22.2 No. 235, and if it is part of a range that extends into the Table 2 "Normal Operating Conditions". Likewise, a voltage rating shall not be lower than the specified "Normal Operating Conditions", unless it is part of a range that extends into the "Normal Operating Conditions". | Class III equipment.                 | N       |
| 2.5.9  | Terminals for permanent wiring are required to be suitable for U.S./Canadian wire gauge sizes and be rated 125 percent of the equipment rating.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Class III equipment.                 | N       |
| 2.5.11 | When subjected to impedance testing, protective earthing and bonding are required to be tested to the additional test conditions that originate in CAN/CSA C22.2 No. 0.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Class III equipment.                 | N       |
| 2.6.2  | Motor control devices are required for cord-connected equipment with a motor if the equipment is rated more than 12A, or if the motor has a nominal voltage rating greater than 120 V or is rated more than 1/3hp (locked rotor current over 43 A).                                                                                                                                                                                                                                                                                                                                                                                        | No motors in the equipment.          | N       |
| 2.6.8  | Vertically mounted disconnect switches and circuit breakers are required to have the "on" position indicated by the handle in the up position.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | There is no switch in the equipment. | N       |
| 2.6.11 | For computer room applications, equipment with battery systems capable of supplying 750 VA for five minutes are required to have a battery disconnect means that may be connected to the computer room remote power-off circuit.                                                                                                                                                                                                                                                                                                                                                                                                           | No battery in the equipment.         | N       |



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|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                        |   |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---|
| 2.7.1  | Suitable CEC/NEC branch circuit protection is required for all standard supply outlets, receptacles and medium-base or smaller lampholders if the supply branch circuit protection is not suitable. Power distribution transformers distributing power at 100 V or more, and rated 10 kVA or more, require transformer overcurrent protection. Panelboards provided as part of information technology equipment are required to have suitable overcurrent protection. | Class III equipment.                                   | N |
| 2.7.6  | Fuses provided in the earthed circuit conductor (neutral) are only permitted for equipment rated up to 125 V, 15 A                                                                                                                                                                                                                                                                                                                                                    | Class III equipment.                                   | N |
| 2.11   | Where a fuse is used to provide Class 2, Limited Power Source, or TNV current limiting, it shall not be operator-accessible unless it is not interchangeable.                                                                                                                                                                                                                                                                                                         | Class III equipment.                                   | N |
| 3.1.12 | For lengths exceeding 3.05 m, external interconnecting flexible cord and cable assemblies are required to be a suitable cable type (e.g. DP, CL2) described in the CEC/NEC.                                                                                                                                                                                                                                                                                           | No interconnecting flexible cord and cable assemblies. | N |
| 3.2    | Wiring methods (terminals, leads etc.) used for the connection of the equipment to the mains shall be in accordance with the CEC/NEC.                                                                                                                                                                                                                                                                                                                                 | Class III equipment.                                   | N |
| 3.2.1  | Power supply cords are required to have attachment plugs rated not less than 125% of the rated current of the equipment.                                                                                                                                                                                                                                                                                                                                              | Class III equipment.                                   | N |
| 3.2.2  | Permanent connection of equipment to the mains by a power supply cord is not permitted, except for certain equipment, such as ATMs.                                                                                                                                                                                                                                                                                                                                   | Class III equipment.                                   | N |
| 3.2.4  | Power supply cords are required to be no longer than 4.5m in length. Flexible power supply cords are required to be compatible with Tables 11 & 12 of the CEC, and Article 400 of the NEC.                                                                                                                                                                                                                                                                            | Class III equipment.                                   | N |
| 3.2.8  | Permanently connected equipment is required to have a suitable wiring compartment and wire bending space.                                                                                                                                                                                                                                                                                                                                                             | Class III equipment.                                   | N |
| 3.3    | Wiring terminals and associated spacings for field wiring connections shall comply with CAN/CSA C22.2 No. 0.                                                                                                                                                                                                                                                                                                                                                          | Class III equipment.                                   | N |
| 3.3.3  | Wire binding screws are not permitted to attach conductors larger than 10 AWG (5.3mm <sup>2</sup> ).                                                                                                                                                                                                                                                                                                                                                                  | Class III equipment.                                   | N |
| 4.3.12 | Equipment with lasers is required to meet Code of Federal Regulations 21CFR 1040 and/or Canadian Radiation Emitting Devices Act, REDR C1370, as applicable.                                                                                                                                                                                                                                                                                                           | No laser in the equipment.                             | N |



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|         |                                                                                                                                                                                                                                                                                                                            |                                                                                                                  |          |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------|
| 4.4.1   | For computer room applications, automated information storage systems with combustible media greater than 27 cubic feet are required to have a provision for connection of either automatic sprinklers or a gaseous agent extinguishing system with an extended discharge.                                                 | The equipment has no combustible area greater than 27 cubic feet.                                                | <b>N</b> |
| 4.4.4   | For computer room applications, enclosures with combustible material measuring greater than 0.9 m <sup>2</sup> or a single dimension greater than 1.8 m, are required to have flame spread rating of 50 or less. For other applications, enclosures with the same dimensions require a flame spread rating of 200 or less. | The equipment has no combustible material greater than 0.93m <sup>2</sup> or single dimension greater than 1.8m. | <b>N</b> |
| 4.4.8   | The maximum quantity of flammable liquid stored in equipment is required to meet NFPA 30.                                                                                                                                                                                                                                  | No flammable liquids within the equipment.                                                                       | <b>N</b> |
| Annex H | Equipment that produces ionizing radiation is required to comply with Code of Federal Regulations, 21 CFR 1020 and/or Canadian Radiation Emitting Devices Act, REDR C1370, as applicable.                                                                                                                                  | The equipment does not produce ionizing radiation.                                                               | <b>N</b> |



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|         | <b>The following key national differences are based on requirements other than national regulatory requirements.</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                        |          |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 1.5.1   | <p>Components of equipment must be suitable for the application, and must comply with the requirements of the equipment standard and the applicable national (Canadian and/or U.S.) component or material standards, as far as they may apply.</p> <p>The acceptance will be based on the following:</p> <p>A) A component certified by a Canadian or U.S. NCB to a Canadian or U.S. component standard will be checked for correct application and use in accordance with its specified rating. Where necessary, it will also be subjected to the applicable tests of the equipment standard.</p> <p>B) A component, which has a CB Test Certificate for compliance with a relevant IEC component standard, will be checked for correct application and use in accordance with its specified ratings. Where necessary, it will also be subject to the applicable tests of the equipment standard, and to the applicable tests of the Canadian and/or U.S. component or material standard, under the conditions occurring in the equipment.</p> <p>C) A component which has no approval as in A) or B) above or which is used not in accordance with its specified ratings, will be subject to the applicable tests of the equipment standard, and to the applicable tests of the Canadian and/or U.S. component or material standard, under the conditions occurring in the equipment.</p> <p>D) Some components may require annual re-testing, which may be carried out by the manufacturer, CSA International or another laboratory.</p> | All critical components are IEC certified. See list of critical components in main CB report (§1.5.01). There may be additional requirements for components in Canada. | <b>P</b> |
| 3.4     | Equipment connected to a centralized d.c. power system is required to comply with special earthing, wiring and marking requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Must be checked in the end use.                                                                                                                                        | <b>N</b> |
| 4.1.6   | Wall and ceiling mounted equipment is required to comply with special loading tests.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Not intended for wall and ceiling mounting.                                                                                                                            | <b>N</b> |
| 4.1.7   | Equipment with handles is required to comply with special loading tests.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | The equipment has no handles.                                                                                                                                          | <b>N</b> |
| 4.2.9   | Enclosures around CRTs having a diagonal dimension of 160 mm or more are required to reduce the risk of injury due to the implosion of the CRT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | No CRTs in the equipment.                                                                                                                                              | <b>N</b> |
| 6.2.1.1 | Under normal operating conditions, the maximum acceptable TNV-2 and TNV-3 circuit levels for other than ringing signals are: $(U_{ac}/42.4 + U_{dc}/60) \leq 1$ .                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | The modem module does not generate any TNV voltages.                                                                                                                   | <b>P</b> |
| 6.2.2.2 | Access restrictions to TNV-2 and TNV-3 circuits in battery compartments also apply to TNV-1 circuits.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No battery compartments.                                                                                                                                               | <b>N</b> |



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|         |                                                                                                                                                                                          |                                                                                                                                     |          |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|----------|
| 6.3.4.3 | Equipment intended to receive telecommunication ringing signals is required to comply with special leakage current measurement tests.                                                    | The test has not been performed. Must be considered in end use.                                                                     | <b>N</b> |
| 6.4.1   | Enamel coating on winding wire not considered electrical separation unless subjected to special investigation.                                                                           | No winding components used.                                                                                                         | <b>N</b> |
| 6.4.3   | Equipment connected to a telecommunications network and supplied with an earphone intended to be held against, or in the ear is required to comply with special acoustic pressure tests. | Not supplied with an earphone intended to be held against the ear.                                                                  | <b>N</b> |
| 6.5     | Where a fuse is used to provide current limiting, it shall not be operator-accessible unless it is not interchangeable.                                                                  | Equipment not intended to provide power over the telecommunication wiring system.                                                   | <b>N</b> |
| 6.6     | Equipment intended for connection to telecommunication network outside plant cable is required to be protected against overvoltage from power line crosses.                              | Equipment is not provided with a means for direct connection to a telecommunication network. Must be considered for the end system. | <b>N</b> |
| M.2     | Continuous ringing signals up to 16mA only are permitted if subject to special installation and performance restrictions.                                                                | The equipment does not generate any ringing signals.                                                                                | <b>N</b> |





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**APPENDIX: CHINESE DEVIATIONS****Test results according to CB BULLETIN No. 101A, December 2001**

| Clause         | Requirement - Test                                                                                                                            | Result - Remark      | Verdict |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------|
| 1.4.5<br>1.6.5 | The minimum supply tolerance is -10%, +10% according to Chinese situation (GB4943). Equipment used in China shall cover 220V $\pm$ 10%, 50Hz. | Class III equipment. | N       |
| 3.2.1          | The Chinese National Standard for Plugs is GB1002-1996, which is not equivalent with IEC 60083.                                               | Class III equipment. | N       |





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**APPENDIX: ISRAELI DEVIATIONS****Test results according to CB BULLETIN No. 101A, December 2001**

| Clause   | Requirement – Test                                                                                                                                                                                                                                                                                                                                                                                                                      | Result - Remark                                       | Verdict |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|---------|
| 1.2.12.1 | TN Power Distribution.<br>The mains system in Israel is TN-S or TN-C or TN-C-S.                                                                                                                                                                                                                                                                                                                                                         | Class III equipment.                                  | N       |
| 1.7      | Marking and Instructions<br>The package of the equipment shall be marked in Hebrew, and shall include:<br>The name of the manufacturer,<br>The country of production,<br>The year of production,<br>The name and address of the importer.<br>The marking shall be on a rectangular label (of at least 52mm X 24mm). The letters height should be at least 2mm. The color of the label shall be in contrast to the color of the package. | Must be considered before marketed in Israel.         | —       |
| 1.7.14   | Language<br>All instructions and warnings concerning safety should be in the Hebrew language.                                                                                                                                                                                                                                                                                                                                           | Must be considered before marketed in Israel.         | —       |
| 2.101    | EMC<br>The equipment shall comply with SI 961 part 6 (CISPR 22 + 24).                                                                                                                                                                                                                                                                                                                                                                   | Must be considered when installed in the end product. | N       |
| 3.2.2    | Permanently connected equipment<br>Additional note below table 10:<br>In Israel the diameter of the conduit shall comply with the Electricity Law.                                                                                                                                                                                                                                                                                      | Class III equipment.                                  | N       |





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## APPENDIX: JAPANESE DEVIATIONS

### Test results according to CB BULLETIN No. 101A, December 2001

| Clause  | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Result - Remark      | Verdict |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------|
| 2.9.2.1 | Delete entire column headed by<br>"Nominal mains supply voltage $\leq$ 150V<br>(Transient rating 1500V)" in Table 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Considered.          | N       |
|         | Delete "> 150V" from column headed by<br>"Nominal mains supply voltage > 150V $\leq$ 300V<br>(Transient rating 2500V)" in Table 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Considered.          | N       |
| 2.9.2.2 | Delete entire column headed by<br>"Nominal mains supply voltage $\leq$ 150V<br>(Maximum transient in secondary circuit 800V<br>see condition 6)" in Table 5.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Considered.          | N       |
| 2.9.4.4 | <p>Replacement:<br/>The following shall replace the entire existing paragraphs:</p> <p>Title:<br/>Wound components</p> <p>BASIC, SUPPLEMENTARY, DOUBLE or REINFORCED INSULATION is permitted in a wound component using one of the following a), b), or c) constructions or the wound component must use interleaved insulation which complies with 2.9.4.1 or 2.9.4.2:</p> <p>a) the winding wire is insulated with insulation complying with 2.9.4.1 other than solution based type enamel coatings.</p> <p>b) the winding wire is insulated with extruded multi-layers or wrapped layers of tape (each layer can be tested for electric strength) which complies with 2.9.4.1 and complies with Annex U.</p> <p>c) the winding wire is insulated with extruded multi-layers or wrapped layers of tape (test can only be performed on finished winding wire) and complies with Annex U.</p> <p>Note 1 - See also 6.4.1</p> | Class III equipment. | N       |



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|         |                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |          |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------|
| 5.1     | <p>Addition:</p> <p>Add the following to 5) as specified in "Conditions applicable to table 16, parts 1 and 2"</p> <p>With regards to 1), insulating materials complying with Japanese requirement (Refer to Japanese difference for current IEC 60335-1 (3<sup>rd</sup> Edition) in CB Bulletin 94B), can be taken of data for that material to determine the appropriate maximum temperature rise.</p> | Considered.                       | <b>N</b> |
| Annex U | <p>Replacement:</p> <p>Annex U (normative)</p>                                                                                                                                                                                                                                                                                                                                                           | Class III equipment. No TIW used. | <b>N</b> |



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**APPENDIX: KOREAN DEVIATIONS****Test results according to CB BULLETIN No. 101A, December 2001**

| Clause  | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                               | Result - Remark                                | Verdict |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|---------|
| General | <p>Voltage ratings<br/>As national supply voltage is subject to be increased to 220V, an appliance rated 220V only is to be allowed to obtain type approval in Korea. Either an appliance rated 110V or 220/110V is not allowed. When an appliance is supplied in Korea, it shall be set to and marked with 220V.</p> <p>But free voltage appliance by SMPS (Switching Mode Power Supply) is allowed and it shall be marked with "100/220V".</p> | Class III equipment.                           | N       |
| General | <p>Frequency<br/>Only appliances having supply frequency of 60Hz or a frequency range including 60 Hz are accepted. When an appliance is supplied in Korea, it shall be set to and marked with 60Hz.</p>                                                                                                                                                                                                                                         | Class III equipment.                           | N       |
| General | <p>Instruction<br/>Instruction manuals and appliance markings related to safety, including nameplate, shall be in Korean or graphical symbols in IEC Publication 60417.</p>                                                                                                                                                                                                                                                                      | Must be considered before marketing in Korea.  | —       |
| 1.5.101 | <p>Addition: Plugs for the connection of the apparatus to the supply mains shall comply with Korean requirement (KSC 8305).</p>                                                                                                                                                                                                                                                                                                                  | Class III equipment.                           | N       |
| 7       | <p>Addition<br/>EMC<br/>The apparatus shall comply with the relevant CISPR standards.</p>                                                                                                                                                                                                                                                                                                                                                        | Must be considered when part of an end system. | N       |





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**APPENDIX: SINGAPORE DEVIATIONS**  
**Test results according to CB BULLETIN No. 101A, December 2001**

| Clause  | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Result - Remark                                              | Verdict |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------|
| General | IT Power Systems are not allowed in the Republic of Singapore and all clauses related to IT Power Systems are not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Class III equipment.                                         | N       |
| 2.2.3   | <p>(a) After the first paragraph, insert the following:<br/>Conditions described in IEC publications 68-2-3: Test Ca: Damp Heat, Steady State (temperature: <math>40\pm 2^{\circ}\text{C}</math>, relative humidity: 90% to 95%) shall apply to insulation to be used under tropical conditions. The duration of the humidity conditioning is 5 days (120h) under tropical conditions.</p> <p>(b) At the end of the last paragraph, insert the following note:<br/>NOTE: The additional requirement on humidity conditioning is drawn from Clause 10.2 of IEC 60065: 1985.</p> | Equipment has been tested and complies with the requirement. | P       |





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## APPENDIX: US DEVIATIONS

Test results according to CB BULLETIN No. 101A, December 2001

| Clause | Requirement - Test                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Result - Remark              | Verdict |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|---------|
|        | <b>The following is a summary of the major national differences based on national regulatory requirements of the US National Electrical Code (NEC) ANSI/ NFPA 70-1996</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                              |         |
| 1.1.1  | All equipment installations are required to be in accordance with the National Electrical Code (NEC) ANSI/NFPA 70, and, unless marked or otherwise identified, the Standard for the Protection of Electronic Computer/Data-Processing Equipment, ANSI/NFPA 75                                                                                                                                                                                                                                                                                                                                                                | Class III equipment.         | N       |
| 1.7.1  | Equipment for use on supply systems with a neutral and more than one phase conductor (e.g. 120/240 V, 3-wire) require a special marking format for electrical ratings. A voltage rating that exceeds an attachment plug cap rating is only permitted if it does not exceed the extreme operating conditions in Table 2 of CAN/CSA C22.2 No. 235, and if it is part of a range that extends into the Table 2 "Normal Operating Conditions". Likewise, a voltage rating shall not be lower than the specified "Normal Operating Conditions", unless it is part of a range that extends into the "Normal Operating Conditions". | Class III equipment.         | N       |
| 2.5.9  | Terminals for permanent wiring are required to be suitable for U.S./Canadian wire gauge sizes and be rated 125 percent of the equipment rating.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Class III equipment.         | N       |
| 2.5.11 | The capacity of the connection between the earthing terminal and parts required to be earthed is required to comply with CAN/CSA C22.2 No. 0.4.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Class III equipment.         | N       |
| 2.6.2  | Motor control devices are required for cord-connected equipment with a motor if the motor (a) has a nominal voltage rating greater than 120 V, (b) is rated more than 12 A, or (c) is rated more than 1/3hp (locked rotor current over 43 A).                                                                                                                                                                                                                                                                                                                                                                                | No motors in the equipment.  | N       |
| 2.6.8  | Vertically mounted disconnect switches and circuit breakers are required to have the "on" position indicated by the handle in the up position.                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | No switch in the equipment.  | N       |
| 2.6.11 | For computer room applications, equipment with battery systems capable of supplying 750 VA for five minutes are required to have a battery disconnect means that may be connected to the computer room remote power-off circuit.                                                                                                                                                                                                                                                                                                                                                                                             | No battery in the equipment. | N       |



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|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                        |   |
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| 2.7.1  | Suitable NEC branch circuit protection is required for all standard supply outlets, receptacles and medium-base or smaller lampholders if the supply branch circuit protection is not suitable. Power distribution transformers distributing power at 100 V or more, and rated 10 kVA or more, require transformer overcurrent protection. Panelboards provided as part of information technology equipment are required to have suitable overcurrent protection. | Class III equipment.                                   | N |
| 2.7.6  | Fuses provided in the earthed circuit conductor (neutral) are only permitted for equipment rated 125 V, 15 A.                                                                                                                                                                                                                                                                                                                                                     | Class III equipment.                                   | N |
| 2.11   | Where a fuse is used to provide current limiting, it shall not be operator-accessible unless it is not interchangeable.                                                                                                                                                                                                                                                                                                                                           | Class III equipment.                                   | N |
| 3.1.12 | For lengths exceeding 3.05 m, external interconnecting flexible cord and cable assemblies are required to be a suitable cable type (e.g. DP, CL2) described in the NEC. For lengths 3.05 m or less, external interconnecting flexible cord and cable assemblies which are not types specified in the NEC are required to have special construction features and identification markings.                                                                          | No interconnecting flexible cord and cable assemblies. | N |
| 3.2    | Wiring methods (terminals, leads etc.) used for the connection of the equipment to the mains shall be in accordance with the NEC.                                                                                                                                                                                                                                                                                                                                 | Class III equipment.                                   | N |
| 3.2.1  | Power supply cords are required to have attachment plugs rated not less than 125 percent of the rated current of the equipment.                                                                                                                                                                                                                                                                                                                                   | Class III equipment.                                   | N |
| 3.2.2  | Permanent connection of equipment to the mains by a power supply cord is not permitted                                                                                                                                                                                                                                                                                                                                                                            | Class III equipment.                                   | N |
| 3.2.4  | Power supply cords are required to be no longer than 4.5m in length. Flexible power supply cords are required to be compatible with Article 400 of the NEC.                                                                                                                                                                                                                                                                                                       | Class III equipment.                                   | N |
| 3.2.8  | Permanently connected equipment is required to have a suitable wiring compartment and wire bending space.                                                                                                                                                                                                                                                                                                                                                         | Class III equipment.                                   | N |
| 3.3    | Wiring terminals and associated spacings for field wiring connections shall comply with CSA C22.2 No. 0.                                                                                                                                                                                                                                                                                                                                                          | Class III equipment.                                   | N |
| 3.3.3  | Wire binding screws are not permitted to attach conductors larger than 10 AWG (5.3mm <sup>2</sup> )                                                                                                                                                                                                                                                                                                                                                               | Class III equipment.                                   | N |
| 4.3.12 | Equipment with lasers is required to meet Code of Federal Regulations 21CFR 1040 and Canadian Radiation Emitting Devices Act, REDR C1370.                                                                                                                                                                                                                                                                                                                         | No laser in the equipment.                             | N |



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|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| 4.4.1                                                                                                           | For computer room applications, automated information storage systems with combustible area greater than 27 cubic feet are required to have a provision for connection of either automatic sprinklers or a gaseous agent extinguishing system with an extended discharge.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | The equipment has no combustible area greater than 27 cubic feet.                                                                                                      | N |
| 4.4.4                                                                                                           | For computer room applications, enclosures with combustible material measuring greater than 0.9 m <sup>2</sup> or a single dimension greater than 1.8 m, are required to have a flame spread rating of 50 or less. For other applications, enclosures with the same dimensions require a flame spread rating of 200 or less.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | The equipment has no combustible material greater than 0.93m <sup>2</sup> or single dimension greater than 1.8m.                                                       | N |
| 4.4.8                                                                                                           | The maximum quantity of flammable liquid stored in equipment is required to comply with NFPA 30.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | No flammable liquids within the equipment.                                                                                                                             | N |
| <b>The following national differences are based on requirements other than national regulatory requirements</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                        |   |
| 1.5.1                                                                                                           | Some components and materials associated with the risk of fire, electric shock, or personal injury are required to have component or material ratings in accordance with the applicable national (U.S. and Canadian) component or material requirements. These components include: attachment plugs, cathode ray tubes, circuit breakers, communication circuit accessories, cord sets and power supply cords, direct plug-in equipment, enclosures (outdoor), flexible cords and cables, fuses (branch circuit), fuseholders, ground-fault current interrupters, industrial control equipment, insulating tape, interconnecting cables, lampholders, limit controls, printed wiring, protectors for communications circuits, receptacles, solid state controls, supplementary protectors, surge suppressors, switches (including interlock switches), thermal cutoffs, thermostats, transformer winding wire, tubing, wire connectors and wire and cables | All critical components are IEC certified. See list of critical components in main CB report (§1.5.01). There may be additional requirements for components in the US. | P |
| 3.4                                                                                                             | Equipment connected to a centralized d.c. power system is required to comply with special earthing, wiring and marking requirements.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Must be considered for the end use.                                                                                                                                    | N |
| 4.1.6                                                                                                           | Wall and ceiling mounted equipment is required to comply with special loading tests.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Not intended for wall and ceiling mounting.                                                                                                                            | N |
| 4.1.7                                                                                                           | Equipment with handles is required to comply with special loading tests.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | The equipment has no handles.                                                                                                                                          | N |
| 4.2.9                                                                                                           | Enclosures around CRTs with a face area of 160 mm or more are required to reduce the risk of injury due to the implosion of the CRT.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No CRTs in the equipment.                                                                                                                                              | N |



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| 6.2.1.1 | Under normal operating conditions, the maximum acceptable TNV-2 and TNV-3 circuit levels for other than ringing signals are:<br>$(U_{ac}/42.4 + U_{dc}/60) \leq 1$ .                     | The equipment does not generate any ringing signals.                                                                                | <b>P</b> |
| 6.2.2.2 | Access restrictions to TNV-2 and TNV-3 circuits in battery compartments also apply to TNV-1 circuits.                                                                                    | No battery compartments.                                                                                                            | <b>N</b> |
| 6.3.4.3 | Equipment intended to receive telecommunication ringing signals is required to comply with special leakage current measurement tests.                                                    | The test has not been performed. Must be considered in end use.                                                                     | <b>N</b> |
| 6.4.1   | Enamel coating on winding wire not considered electrical separation unless subjected to special investigation.                                                                           | No winding components used.                                                                                                         | <b>N</b> |
| 6.4.3   | Equipment connected to a telecommunications network and supplied with an earphone intended to be held against, or in the ear is required to comply with special acoustic pressure tests. | Not intended for connection to an ear phone.                                                                                        | <b>N</b> |
| 6.5     | Where a fuse is used to provide current limiting, it shall not be operator-accessible unless it is not interchangeable.                                                                  | Equipment not intended to provide power over the telecommunication wiring system.                                                   | <b>N</b> |
| 6.6     | Equipment intended for connection to telecommunication network outside plant cable is required to be protected against overvoltage from power line crosses.                              | Equipment is not provided with a means for direct connection to a telecommunication network. Must be considered for the end system. | <b>N</b> |
| M.2     | Continuous ringing signals up to 16 mA only are permitted if subjected to special installation and performance restrictions.                                                             | The equipment does not generate any ringing signals.                                                                                | <b>N</b> |