|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | | |  | |
| **TEST REPORT**  **EN Reference Number**  **Title of the EN Standard** | | | |
|  | |  | |
| **Report Number. :** | |  | |
| **Date of issue :** | |  | |
| **Total number of pages** | |  | |
|  | | | |
| **Name of Testing Laboratory preparing the Report :** |  | | |
| **Applicant’s name :** |  | | |
| **Address :** |  | | |
| **Test specification:** |  | | |
| **Standard :** |  | | |
| **Test procedure :** | ENEC  CCA NTR  Other: \_\_\_\_\_\_\_\_ | | |
| **Non-standard test method :** | N/A | | |
| **Test Report Form No. :** | EN\_european standard-suffix | | |
| **Test Report Form(s) Originator :** | Name of Originator | | |
| **Issue date of Master TRF :** | Dated … | | |
| **TRF template used :** | OD ECS 040-3 ed. April 2023 | | |
| **Copyright © 2023 ETICS, Brussels, Belgium. All rights reserved.**  This publication may be reproduced in whole or in part for non-commercial purposes as long as the ETICS is acknowledged as copyright owner and source of the material. ETICS takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context**.**  If this Test Report Form is used by non-ETICS members, the ECS logo and the reference to the ENEC/CCA Scheme procedure shall be removed. | | | |
| **General disclaimer:** | | | |
| The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing ECS Testing Laboratory. The authenticity of this Test Report and its contents can be verified by contacting the NCB, responsible for this Test Report. | | | |
|  | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test item description :** | |  | | |
| **Trade Mark :** | |  | | |
| **Manufacturer :** | |  | | |
| **Model/Type reference :** | |  | | |
| **Ratings :** | |  | | |
|  | | | | |
| **Responsible Testing Laboratory (as applicable), testing procedure and testing location(s):** | | | | |
|  | **ECS Testing Laboratory:** | |  | |
| **Testing location/ address :** | | |  | |
| **Tested by (name, function, signature) :** | | |  |  |
| **Approved by (name, function, signature) :** | | |  |  |
|  | | | | |
|  | **Testing procedure: E-CTF Stage 1:** | |  | |
| **Testing location/ address :** | | |  | |
| **Tested by (name, function, signature) :** | | |  |  |
| **Approved by (name, function, signature) :** | | |  |  |
|  | | | | |
|  | **Testing procedure: E-CTF Stage 2:** | |  | |
| **Testing location/ address :** | | |  | |
| **Tested by (name + signature) :** | | |  |  |
| **Witnessed by (name, function, signature) :** | | |  |  |
| **Approved by (name, function, signature) :** | | |  |  |
|  | | | | |
|  | **Testing procedure: E-CTF Stage 3:** | |  | |
| **Testing location/ address :** | | |  | |
| **Tested by (name, function, signature) :** | | |  |  |
| **Witnessed by (name, function, signature) :** | | |  |  |
| **Approved by (name, function, signature) :** | | |  |  |
| **Supervised by (name, function, signature) :** | | |  |  |
|  | | | | |

|  |  |
| --- | --- |
| List of Attachments (including a total number of pages in each attachment): | |
| **Summary of testing:** | |
| **Tests performed (name of test and test clause):** | **Testing location:** |
| **Summary of compliance with National Differences (List of countries addressed):**  **The product fulfils the requirements of \_\_\_\_\_\_\_\_\_ (insert standard number and edition and delete the text in parenthesis, leave it blank or delete the whole sentence, if not applicable)** | |

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

|  |  |
| --- | --- |
| **Test item particulars :** |  |
| **Classification of installation and use :** |  |
| **Supply Connection :** |  |
| **:** |  |
| **Possible test case verdicts:** |  |
| **- test case does not apply to the test object :** | N/A |
| **- test object does meet the requirement :** | P (Pass) |
| **- test object does not meet the requirement :** | F (Fail) |
| **Testing :** |  |
| **Date of receipt of test item :** |  |
| **Date (s) of performance of tests :** |  |
|  | |
| **General remarks:** | |
| "(See Enclosure #)" refers to additional information appended to the report. "(See appended table)" refers to a table appended to the report.  **Throughout this report a  comma /  point is used as the decimal separator.** | |
| **Name and address of factory (ies) :** |  |
| General product information and other remarks: | |

|  |  |  |  |
| --- | --- | --- | --- |
|  | Note: It is recommended that the Compliance Checklist is one table with header for each new clause in capital letters, bold and shaded (10%) while each sub-clause has bold letters and no shading. | |  |
| **1.0** | **HEADER BOLD, UPERCASE LETTERS** | |  |
|  | : |  |  |
|  | : |  |  |
| **1.1** | **Sub-header. Bold, lowercase letters, bold** | |  |

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | |  |
|  |  |  |  |
|  | : |  |  |
|  | : |  |  |
|  |  |  |  |
|  |  |  |  |
|  | . : |  |  |
|  |  | |  |
|  |  |  |  |
|  |  |  |  |
|  | : |  |  |
|  |  |  |  |
|  |  |  |  |
|  | : |  |  |
|  |  | |  |
|  |  |  |  |
|  |  |  |  |
|  |  | |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | : |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **TABLE: Heating Test** | | | |  |
|  | **Test voltage (V) :** | |  | | **⎯** |
|  | **Ambient (oC) :** | |  | | **⎯** |
| **Thermocouple Locations** | | **Max. temperature measured, (oC)** | | **Max. temperature limit, (oC)** | |
|  | |  | |  | |
|  | |  | |  | |
|  | |  | |  | |
|  | |  | |  | |
|  | |  | |  | |
|  | |  | |  | |
| Supplementary information: | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TABLE: Heating test, resistance method** | | | | | | |  |
|  | **Test voltage (V) :** | | | |  | | | **⎯** |
|  | **Ambient, t1 (°C) :** | | | |  | | | **⎯** |
|  | **Ambient, t2 (°C) :** | | | |  | | | **⎯** |
| **Temperature rise of winding** | | **R1 (Ω)** | **R2 (Ω)** | **ΔT (K)** | | **Max. dT (K)** | **Insulation class** | |
|  | |  |  |  | |  |  | |
|  | |  |  |  | |  |  | |
|  | |  |  |  | |  |  | |
| Supplementary information: | | | | | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **TABLE: Dielectric Strength** | | |  |
| **Test voltage applied between:** | | **Test potential applied (V)** | **Breakdown / flashover (Yes/No)** | |
|  | |  |  | |
|  | |  |  | |
|  | |  |  | |
|  | |  |  | |
| Supplementary information: | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | | **TABLE: Electrical Data (in normal conditions)** | | | | | |  |
| **fuse #** | **I rated (A)** | | **U (V)** | **P (W)** | **I (mA)** | **I fuse (mA)** | **condition/status** | |
|  |  | |  |  |  |  |  | |
|  |  | |  |  |  |  |  | |
|  |  | |  |  |  |  |  | |
|  |  | |  |  |  |  |  | |
| Supplementary information: | | | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TABLE: Power Input Deviation** | | | | | |  |
| **Input deviation of/at:** | | **P rated  (W)** | **P measured (W)** | **Δ P** | **Required Δ P** | **Remark** | |
|  | |  |  |  |  |  | |
|  | |  |  |  |  |  | |
|  | |  |  |  |  |  | |
| Supplementary information: | | | | | | | |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **TABLE: insulation resistance measurements** | | |  |
| **Insulation resistance R between:** | | **R (MΩ)** | **Required R (MΩ)** | |
| **Between mains poles (primary fuse disconnected)** | |  |  | |
| **Between parts separated by basic or supplementary insulation** | |  |  | |
| **Between parts separated by double or reinforced insulation** | |  |  | |
|  | |  |  | |
| Supplementary information: | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **TABLE: Impact Resistance** | | | |  |
| **Impacts per surface** | | **Surface tested** | **Impact energy (Nm)** | **Comments** | |
|  | |  |  |  | |
|  | |  |  |  | |
|  | |  |  |  | |
|  | |  |  |  | |
| Supplementary information: | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TABLE: Clearance And Creepage Distance Measurements** | | | | | |  |
| **clearance cl and creepage distance dcr at/of:** | | **Up (V)** | **U r.m.s.  (V)** | **Required cl (mm)** | **cl  (mm)** | **required dcr (mm)** | **dcr (mm)** |
|  | |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |
|  | |  |  |  |  |  |  |
| Supplementary information: | | | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **TABLE: Distance Through Insulation Measurements** | | | |  |
| **Distance through insulation di at/of:** | | **U r.m.s.**  **(V)** | **Test voltage (V)** | **Required di (mm)** | **di**  **(mm)** |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | |  |  |  |  |
|  | |  |  |  |  |
| Supplementary information: | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **TABLE: Ball Pressure Test of Thermoplastics** | | | |  |
| **Allowed impression diameter (mm)  :** | | |  | | ⎯ |
| Object/ Part No./ Material | | Manufacturer/ trademark | Test temperature (°C) | Impression diameter (mm) | |
|  | |  |  |  | |
|  | |  |  |  | |
|  | |  |  |  | |
|  | |  |  |  | |
| Supplementary information: | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TABLE: Needle- flame test (NFT)** | | | | | |  |
| Object/ Part No./ Material | | Manufacturer/ trademark | Duration of application of test flame (ta); (s) | Ignition of specified layer Yes/No | Duration of burning (tb) (s) | Verdict | |
|  | |  |  |  |  |  | |
|  | |  |  |  |  |  | |
|  | |  |  |  |  |  | |
| Supplementary information:  **NFT not relevant (or applicable) for Parts of material classified as V‑0 or V‑1 NFT not relevant (or applicable) for Base material of PCBs classified as V‑0 or if relevant VTM-0** | | | | | | | |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TABLE: Resistance to heat and fire - Glow wire tests** | | | | | | | | |  |
| **Object/ Part No./ Material** | | **Manufacturer/ trademark** | **Glow wire test (GWT); (°C)** | | | | | | **Verdict** | | |
| **550** | **650** | | **750** | | **850** |
| **te** | **ti** | **te** | **ti** |
|  | |  |  |  |  |  |  |  |  | | |
|  | |  |  |  |  |  |  |  |  | | |
|  | |  |  |  |  |  |  |  |  | | |
|  | |  |  |  |  |  |  |  |  | | |
| **Object/ Part No./ Material** | | **Manufacturer/ trademark** | **Glow-wire flammability index (GWFI), °C** | | | | **GW ignition temp. (GWIT), °C** | | **Verdict** | | |
| **550** | **650** | **750** | **850** | **675** | **775** |
|  | |  |  |  |  |  |  |  |  | | |
|  | |  |  |  |  |  |  |  |  | | |
|  | |  |  |  |  |  |  |  |  | | |
|  | |  |  |  |  |  |  |  |  | | |
| The test specimen passed the glow wire test (GWT) with no ignition [(te – ti) ≤ 2s] (Yes/No) : | | | | | | | | |  | | |
| If no, then surrounding parts passed the needle-flame test of annex E (Yes/No) : | | | | | | | | |  | | |
| The test specimen passed the test by virtue of most of the flaming material being withdrawn with the glow-wire (Yes/No)? : | | | | | | | | |  | | |
| Ignition of the specified layer placed underneath the test specimen (Yes/No) : | | | | | | | | |  | | |
| Supplementary information:  550 °C GWT not relevant (or applicable) to parts of material classified at least HB40 or if relevant HBF The GWIT pre-selection option, the 850 °C GWFI pre-selection option, and the 850 °C GWT are not relevant (or applicable) for attended appliances. | | | | | | | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **TABLE: Threaded Part Torque Test** | | | |  |
| **Threaded part identification** | | **Diameter of thread (mm)** | **Column number  ( I, II, or III)** | **Applied torque (Nm)** | | |
|  | |  |  |  | | |
|  | |  |  |  | | |
|  | |  |  |  | | |
| Supplementary information: | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TABLE: Over-voltage and Under-voltage Test** | | | | | |  |
| **Test** | | **Operating condition** | **Rated voltage (V)** | **Test voltage (V)** | **Temperature (oC)** | **Comments** | |
|  | |  |  |  |  |  | |
|  | |  |  |  |  |  | |
|  | |  |  |  |  |  | |
| Supplementary information: | | | | | | | |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TABLE: Critical components information** | | | | | |  |
| **Object / part No.** | | **Manufacturer/ trademark** | **Type / model** | **Technical data** | **Standard** | **Mark(s) of conformity1)** | |
|  | |  |  |  |  |  | |
| **- Description:** | |  | | | | | |
|  | |  |  |  |  |  | |
|  | |  |  |  |  |  | |
|  | |  |  |  |  |  | |
| **- Description:** | |  | | | | | |
|  | |  |  |  |  |  | |
|  | |  |  |  |  |  | |
|  | |  |  |  |  |  | |
| **- Description:** | |  | | | | | |
|  | |  |  |  |  |  | |
|  | |  |  |  |  |  | |
| Supplementary information:  1) Provided evidence ensures the agreed level of compliance. See OD-CB2039. | | | | | | | |

Additional examples of tables for TRF originators to be used as needed.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TABLE:** | | | | | |  |
|  | |  |  | |  | | |
|  |  |  |  | |
|  | |  |  |  |  |  | |
|  | |  |  |  |  |  | |
|  | |  |  |  |  |  | |
| Supplementary information: | | | | | | | |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **TABLE:** | | | | | | |  |
|  |  |  | |  | |  | **Comments** | |
|  |  |  |  |  |  |  |  | |
|  |  |  |  |  |  |  |  | |
|  |  |  |  |  |  |  |  | |
|  |  |  |  |  |  |  |  | |
| Supplementary information: | | | | | | | | |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **TABLE:** | | | |  |
|  | **:** | |  | | **⎯** |
|  | **:** | |  | | **⎯** |
|  | **:** | |  | | **⎯** |
|  | **:** | |  | | **⎯** |
|  | |  | |  | |
|  | |  | |  | |
|  | |  | |  | |
|  | |  | |  | |
|  | |  | |  | |
| Supplementary information: | | | | | |

**List of test equipment used:**

A completed list of used test equipment shall be provided in the Test Reports when a Manufacturer Testing Laboratory according to TMP/CTF stage 1 or TMP/CTF stage 2 procedure has been used.

Note: This page may be removed when CTF stage 1 CTF stage 2 are not used.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Clause** | **Measurement / testing** | **Testing / measuring equipment / material used, (Equipment ID)** | **Range used** | **Last Calibration date** | **Calibration due date** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |