

TEST REPORT

Project No.: H13-30001

Test Report For: Composite shelter

Manufacturer : ARVIN SANAT BASPAR
Model : SLT 8040
Serial number : SMC1100

Tested according to: Client request

Applicant: ARVIN SANAT BASPAR Co.

No. Pages

7

Issue date

02-May-2017

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This test report does not include an assessment of the manufacturer's production.
Conformity of the production with tested sample is not the responsibility of EPIL.

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LQF-510-02

1. GENERAL INFORMATION

1.1. Product Information

| | |
|----------------------|----------------------|
| Equipment under test | : Composite shelter |
| Manufacturer | : ARVIN SANAT BASPAR |
| Model | : SLT 8040 |
| Serial number | : SMC1100 |
| Year of manufacture | : 1396 |
| Standard | : Client request |

1.2. Client Information

| | |
|-----------|--------------------------|
| Applicant | : ARVIN SANAT BASPAR Co. |
| Telephone | : +98 2156417042 |
| Fax | : +98 2156416982 |

1.3. Tests Performed

Dielectric test

1.4. Test Results and Descriptions:

See page 4.



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2. PERFORMANCE AND RESULTS OF TESTS

2.1 Dielectric Test

2.1.1 Test data

| | |
|----------------------------|----------------------|
| Equipment under test (EUT) | : Composite shelter |
| Manufacturer | : ARVIN SANAT BASPAR |
| Location | : E.P.I.L. |
| Date | : 01-May-2017 |
| Engineer of EPIL | : Mrs. Takzare |
| Normative document | : Client request |

2.1.2 Ambient conditions


| | |
|---------------------|-----------|
| Ambient Temperature | : 25.8 °C |
| Relative Humidity | : 29.1 % |
| Pressure | : 865 hPa |

2.1.3 Performance and result of test

According to clause 10.9.4 of IEC 61439-1:2011 for assemblies with enclosures made of insulating material, a dielectric test shall be carried out by applying an a.c. test voltage between a metal foil laid on the outside of the enclosure over openings and joints, and the interconnected live and exposed conductive parts within the assembly located next to the openings and joints.

In case of the equipment under test, the enclosure is empty without any assembled devices. Thus, according to client request, the minimum possible distance between metal foil laid on the outside of enclosure over openings and prospective joints and live and exposed conductive parts is considered in the test using metal foil sheets on openings and joints inside of the enclosure. The inside foil acts as prospective conductive parts in the most unfavorable condition i.e. closest position to the enclosure walls. In normal condition, the assemblies are always placed in farther distance from enclosure walls, which leads to higher values of breakdown and withstand voltage values.

The test was carried out by applying an alternating voltage at power frequency (50 Hz) between outside and inside metal foils (see figure 2).


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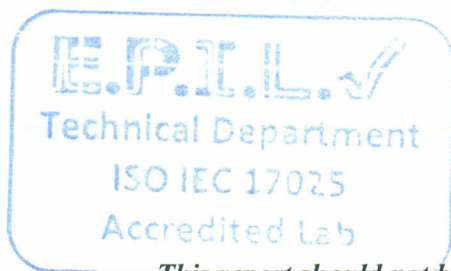
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For breakdown voltage test, the applied voltage is gradually increased from zero until breakdown is occurred. Power frequency withstand voltage test is carried out by applying 4 kV between metal foils at inside and outside of the enclosure and maintained for 60 second. Table 1 shows the results of the test.

Table 1: Results of the breakdown and withstand voltage tests

| Breakdown voltage test | | Power frequency withstand voltage test | |
|------------------------|------------------------------|--|------------|
| Breakdown voltage (kV) | Rate of voltage rise (V/sec) | Applied voltage (kV) | Time (sec) |
| 4.48 | 500 | 4 | 60 |



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3. FIGURES

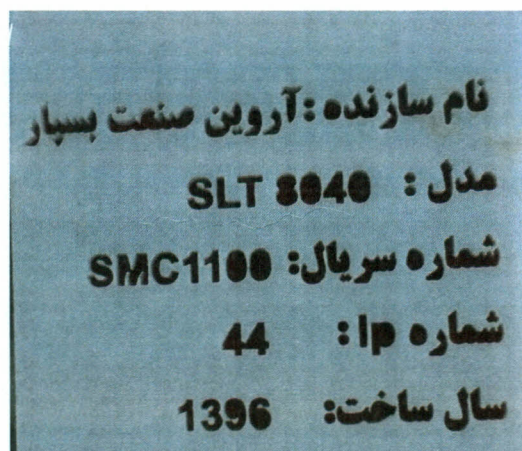


Figure 1: EUT nameplate



Figure 2: Metal foil that used for dielectric test

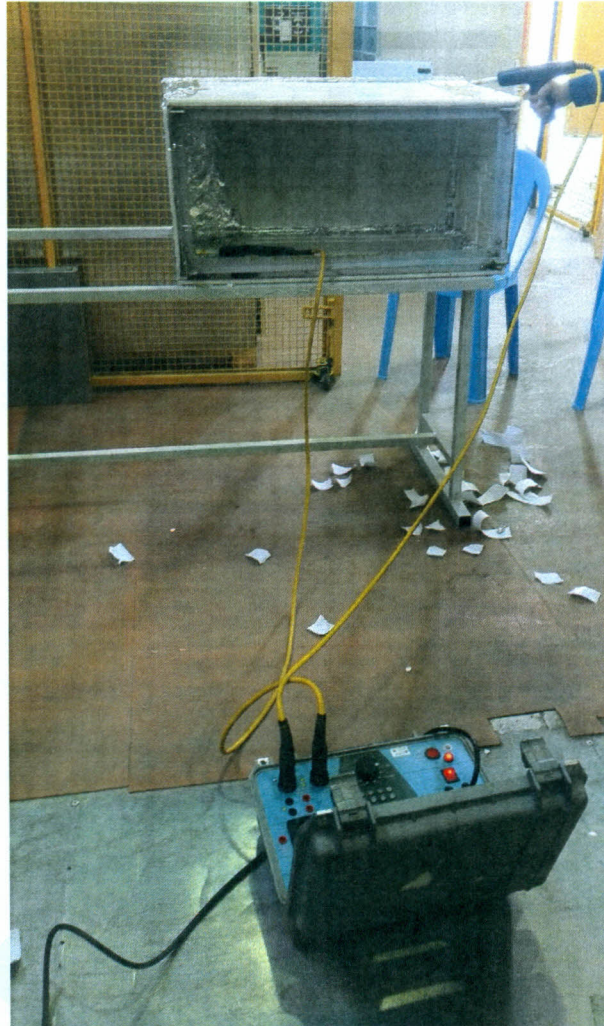


Figure 3: EUT under dielectric test



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