

ASTA

CERTIFICATE OF TYPE TESTS

Laboratory Ref. No: 1702.01.07/08/09/10/11/12/13

APPARATUS: 0.72/3/-kV (U_m /Insulation level), 0.5 class, 50/60Hz, Window type Measuring Current Transformers:
 – 10VA, Type SC30: 200/5A, 300/5A, and 400/5A ratings
 – 10VA, Type S100: 500/5A, 600/5A, and 800/5A ratings
 – 15VA, Type S100: 1500/5A rating

DESIGNATION: Sigma Current Transformer Type: SC30 and S100

MANUFACTURER: Sigma Elektrik Sanayi ve Ticaret A.S.
 Yunus Emre Mah, Yenidogan Yolu Cad. No:30/A Sancaktepe Istanbul, Turkey

TESTED BY: TESTLA Elektrik Laboratuvarları Tic. Ltd. Şti
 Kuzuluk Beldesi Topçusırtı Mah. Ankara Cad. No:34., Sakarya, Turkey

DATES OF TESTS: 6th to 14th March 2017

The apparatus, constructed in accordance with the description, drawings and photographs incorporated in this certificate has been subjected to the series of proving tests in accordance with

IEC 61869-2: Edition 1.0: 2012 – 09 (Clauses 7.2.2, 7.2.6, 7.2.201 & 7.3.1)

The results are shown in the record of Proving Tests and the oscillograms attached hereto. The values obtained and the general performance is considered to comply with the above standard(s) and to justify the ratings assigned by the manufacturer as stated below.

For ratings assigned by the manufacturer and proved by the tests see pages A, B and C.

The record of Proving Tests applies only to the apparatus tested. The responsibility for conformity of any apparatus having the same designations with that tested rests with the Manufacturer.

This Certificate comprises this front sheet, 3 ratings pages and 98 other pages as detailed on page 2.

Only integral reproduction of this Certificate, or reproductions of this page accompanied by any page(s) on which are stated the assigned rated characteristics of the apparatus tested, are permitted without written permission from Intertek Testing and Certification Ltd, Centre Court, Meridian Business Park, Leicester LE19 1WD, United Kingdom. Contact: asta@intertek.com Tel: +44 (0)116 263 0330



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Rajani Menon

Rajani Menon
ASTA Observer

R. Rajani
.....
Certification
Manager

4th September 2017
.....
Date

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Page A

Ratings Assigned by the Manufacturer and Proved by Tests**A) 200/5A, 10VA, Window type Measuring Current Transformer:**

1. Temperature rise tests (Clause 7.2.2)
Rated Continuous Thermal Current I_{th} : 200A
2. Tests for accuracy (Clause 7.2.6)
Class: 0.5 Verified
3. Short-time Current Tests (Clause 7.2.201)
Rated short time Thermal Current I_{th} : 20kA for 1 sec.
Rated short time Dynamic Current I_{dyn} : 50kA peak
4. Power frequency voltage withstand tests on primary terminals (Clause 7.3.1)
Insulation Level: 3kV Verified

B) 300/5A, 10VA, Window type Measuring Current Transformer:

1. Temperature rise tests (Clause 7.2.2)
Rated Continuous Thermal Current I_{th} : 300A
2. Tests for accuracy (Clause 7.2.6)
Class: 0.5 Verified
3. Short-time Current Tests (Clause 7.2.201)
Rated short time Thermal Current I_{th} : 30kA for 1 sec.
Rated short time Dynamic Current I_{dyn} : 75kA peak
4. Power frequency voltage withstand tests on primary terminals (Clause 7.3.1)
Insulation Level: 3kV Verified

C) 400/5A, 10VA, Window type Measuring Current Transformer:

1. Temperature rise tests (Clause 7.2.2)
Rated Continuous Thermal Current I_{th} : 400A
2. Tests for accuracy (Clause 7.2.6)
Class: 0.5 Verified
3. Short-time Current Tests (Clause 7.2.201)
Rated short time Thermal Current I_{th} : 40kA for 1 sec.
Rated short time Dynamic Current I_{dyn} : 100kA peak
4. Power frequency voltage withstand tests on primary terminals (Clause 7.3.1)
Insulation Level: 3kV Verified

Date of tests: 6th to 14th March 2017

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Page B

Ratings Assigned by the Manufacturer and Proved by Tests**D) 500/5A, 10VA, Window type Measuring Current Transformer:**

- | | |
|---|-------------------------------|
| 1. Temperature rise tests (Clause 7.2.2)
Rated Continuous Thermal Current I_{cth} : | 500A |
| 2. Tests for accuracy (Clause 7.2.6)
Class: 0.5 | Verified |
| 3. Short-time Current Tests (Clause 7.2.201)
Rated short time Thermal Current I_{th} :
Rated short time Dynamic Current I_{dyn} : | 50kA for 1 sec.
125kA peak |
| 4. Power frequency voltage withstand tests on primary terminals (Clause 7.3.1)
Insulation Level: 3kV | Verified |

E) 600/5A, 10VA, Window type Measuring Current Transformer:

- | | |
|---|-------------------------------|
| 1. Temperature rise tests (Clause 7.2.2)
Rated Continuous Thermal Current I_{cth} : | 600A |
| 2. Tests for accuracy (Clause 7.2.6)
Class: 0.5 | Verified |
| 3. Short-time Current Tests (Clause 7.2.201)
Rated short time Thermal Current I_{th} :
Rated short time Dynamic Current I_{dyn} : | 60kA for 1 sec.
150kA peak |
| 4. Power frequency voltage withstand tests on primary terminals (Clause 7.3.1)
Insulation Level: 3kV | Verified |

F) 800/5A, 10VA, Window type Measuring Current Transformer:

- | | |
|---|-------------------------------|
| 1. Temperature rise tests (Clause 7.2.2)
Rated Continuous Thermal Current I_{cth} : | 800A |
| 2. Tests for accuracy (Clause 7.2.6)
Class: 0.5 | Verified |
| 3. Short-time Current Tests (Clause 7.2.201)
Rated short time Thermal Current I_{th} :
Rated short time Dynamic Current I_{dyn} : | 80kA for 1 sec.
200kA peak |
| 4. Power frequency voltage withstand tests on primary terminals (Clause 7.3.1)
Insulation Level: 3kV | Verified |

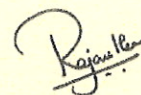
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Page C**Ratings Assigned by the Manufacturer and Proved by Tests****G) 1500/5A, 15VA, Window type Measuring Current Transformer:**

1. Temperature rise tests (Clause 7.2.2)
Rated Continuous Thermal Current I_{cth} : 1500A
2. Tests for accuracy (Clause 7.2.6)
Class: 0.5 Verified
3. Short-time Current Tests (Clause 7.2.201)
Rated short time Thermal Current I_{th} : 100kA for 1 sec.
Rated short time Dynamic Current I_{dyn} : 250kA peak
4. Power frequency voltage withstand tests on primary terminals (Clause 7.3.1)
Insulation Level: 3kV Verified

Date of tests: 6th to 14th March 2017**Rajani Menon, ASTA Observer**