

# ASTA

## CERTIFICATE OF TYPE TESTS

Laboratory Ref. No: 1609.01.03/00

**APPARATUS:** 800/5A, 0.72/3-kV ( $U_m$ /Insulation level), 10VA, 0.5 class, 50/60Hz, Window type Measuring Current Transformer.

**DESIGNATION:** Sigma Current Transformer S100D

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

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

**DATES OF TESTS:** 4<sup>th</sup> to 6<sup>th</sup> October 2016

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 page A.**

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 14 pages, 2 oscillograms, 8 photographs, 10 drawings and no other sheets 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](mailto:asta@intertek.com) Tel: +44 (0)116 263 0330



*Colin Stephens*  
..... Colin Stephens  
ASTA Observer

*P. Gibbs*  
..... Certification  
Manager

*25<sup>th</sup> January 2017*  
..... Date



# ASTA

## CERTIFICATE OF TYPE TESTS

Laboratory Ref. No: 1609.01.02/00

**APPARATUS:** 400/5A, 0.72/3/-kV ( $U_m$ /Insulation level), 10VA, 0.5 class, 50/60Hz, Window type Measuring Current Transformer.

**DESIGNATION:** Sigma Current Transformer S30

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

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

**DATES OF TESTS:** 4<sup>th</sup> to 6<sup>th</sup> October 2016

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 page A.**

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 14 pages, 1 oscillogram, 8 photographs, 11 drawings and no other sheets 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](mailto:asta@intertek.com) Tel: +44 (0)116 263 0330



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*Colin Stephens* ..... Colin Stephens  
ASTA Observer

*P. Gillies* ..... Certification  
Manager

25<sup>TH</sup> JANUARY 2017 ..... Date



# ASTA

## CERTIFICATE OF SELECTED TYPE TESTS

Laboratory Ref. No: 1609.01.01/00

**APPARATUS:** 3-Pole Moulded Case Circuit-breaker, fitted with adjustable over current releases. Rated current  $I_n = 400\text{A}$ ,  $U_e = 415/400\text{V}$ ,  $U_i = 750\text{V}$ ,  $U_{imp} = 8\text{kV}$ . Utilisation Category A, operational temperature:  $40^\circ\text{C}$

**DESIGNATION:** Sigma K400

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

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

**DATES OF TESTS:** 4<sup>th</sup> to 6<sup>th</sup> October 2016

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 60947 – 2: 2016-06 Edition 5.0**  
**Clauses 8.3.5.2, 8.3.5.5 and Test sequence II**

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 page A.**

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 14 pages, 1 diagram, 5 oscillograms, 16 photographs, 47 drawings and no other sheets as detailed on pages 2 and 3.

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](mailto:asta@intertek.com) Tel: +44 (0)116 263 0330



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*C. Diack-Evans* ..... C Diack-Evans  
ASTA Observer

*R. Hayward* ..... Certification  
Manager

*2<sup>nd</sup> March 2017* ..... Date

