

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE

**Instrument transformers –  
Part 1: General requirements**

**Transformateurs de mesure –  
Partie 1: Exigences générales**

Withdrawn



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**Instrument transformers –  
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**Transformateurs de mesure –  
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INTERNATIONAL  
ELECTROTECHNICAL  
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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**INSTRUMENT TRANSFORMERS –****Part 1: General requirements**

## FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61869-1 has been prepared by IEC technical committee 38: Instrument transformers.

TC 38 decided to restructure the whole set of stand-alone Standards in the IEC 60044 series and transform it into a new set of standards composed of general requirements documents and specific requirements documents.

This Standard is the first issue of this new series and can be regarded as a Product Family standard. It contains the general requirements for instrument transformers and shall be read in conjunction with the relevant specific requirements standard for the instrument transformer concerned.

An overview of the planned set of standards is given below:

| PRODUCT FAMILY STANDARDS   | PRODUCT STANDARD   | PRODUCTS  | OLD STANDARD                                 |         |
|--|--|---|--|---------|
| 61869-1<br>GENERAL<br>REQUIREMENTS FOR<br>INSTRUMENT<br>TRANSFORMERS | 61869-2  | CURRENT<br>TRANSFORMERS                                 | 60044-1                                      |         |
|  | 61869-3  | INDUCTIVE VOLTAGE<br>TRANSFORMERS                       | 60044-2                                      |         |
|  | 61869-4  | COMBINED<br>TRANSFORMERS                                | 60044-3                                      |         |
|  | 61869-5  | CAPACITIVE VOLTAGE<br>TRANSFORMERS                      | 60044-5                                      |         |
|  | 61869-6  | CURRENT<br>TRANSFORMERS FOR<br>TRANSIENT<br>PERFORMANCE | 60044-6                                      |         |
|  | 61869-9<br>ADDITIONAL<br>REQUIREMENTS AND<br>DIGITAL INTERFACE<br>FOR ELECTRONIC<br>INSTRUMENT<br>TRANSFORMERS | 61869-7   | ELECTRONIC VOLTAGE<br>TRANSFORMERS           | 60044-7 |
|  |  | 61869-8   | ELECTRONIC<br>CURRENT<br>TRANSFORMERS        | 60044-8 |
|  |  | 61869-10  | LOW-POWER STAND-<br>ALONE CURRENT<br>SENSORS |         |

This Standard covers all general requirements formerly found in the stand-alone standards of the IEC 60044 series. Additionally, it introduces some technical innovations:

- requirements for gas-insulated instrument transformers
- additional special tests
- requirements for internal arc fault protection
- requirements for degrees of protection by enclosure
- requirements for resistance to corrosion
- requirements for safety and environmental concerns

The text of this standard is based on the following documents:

|             |                  |
|-------------|------------------|
| FDIS        | Report on voting |
| 38/360/FDIS | 38/364/RVD       |

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
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