

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Instrument transformers –
Part 20: Safety requirements of instrument transformers for high voltage
applications**

**Transformateurs de mesure –
Partie 20: Exigences de sécurité des transformateurs de mesure pour
applications à haute tension**



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IEC Secretariat
3, rue de Varembe
CH-1211 Geneva 20
Switzerland

Tel.: +41 22 919 02 11
info@iec.ch
www.iec.ch

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

INSTRUMENT TRANSFORMERS –

Part 20: Safety requirements of instrument transformers for high voltage applications

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IEC 61869-20 has been prepared by IEC technical committee 38: Instrument Transformers. It is an International Standard.

The text of this International Standard is based on the following documents:

Draft	Report on voting
38/808/FDIS	38/814/RVD

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 61869 series, published under the general title *Instrument transformers*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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INSTRUMENT TRANSFORMERS –

Part 20: Safety requirements of instrument transformers for high voltage applications

1 Scope

This part of IEC 61869 specifies the requirements for the safe design, operation and test for the safety of instrument transformers whose highest voltage for equipment is higher than 1 kV AC or 1,5 kV DC.

Low-power instrument transformers are not covered by this document.

NOTE The possibility of including additional safety requirements, specific to low-power instrument transformers, is currently under consideration.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60529, *Degrees of protection provided by enclosures (IP Code)*

IEC TS 60815-1, *Selection and dimensioning of high-voltage insulators intended for use in polluted conditions – Part 1: Definitions, information and general principles*

IEC 61869-1, *Instrument transformers – Part 1: General requirements*

IEC 61869-99, *Instrument transformers – Part 99: Glossary*

IEC 62262, *Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61869-99 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

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- ISO Online browsing platform: available at <https://www.iso.org/obp>

3.1

high voltage instrument transformer

HV IT

instrument transformer whose highest voltage for equipment is a high voltage