

INTERNATIONAL STANDARD

**Railway applications – Fixed installations – Particular requirements for AC
switchgear –
Part 3-3: Measurement, control and protection devices for specific use in AC
traction systems – Voltage transformers**





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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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PARTICULAR REQUIREMENTS FOR AC SWITCHGEAR –****Part 3-3: Measurement, control and protection devices
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FOREWORD

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International Standard IEC 62505-3-3 has been prepared by IEC technical committee 9: Electrical equipment and systems for railways.

This second edition cancels and replaces the first edition published in 2009. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

- This standard was revised to reflect the latest versions of standards referenced and to remove text already included in the IEC 61869 series.
- The structure of the document was adapted to that of IEC 62505-1 and IEC 62505-2.
- Ratings have been added to provide designations in line with other railway standards, for example IEC 62497.

- Tests requirements have been detailed to meet operating conditions of railway applications.
- Partial discharge voltages have been specified in Table 2.

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

FDIS	Report on voting
9/2556/FDIS	9/2562/RVD

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

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

This document has to be read in conjunction with IEC 61869-1:2007 and IEC 61869-3:2011 (see Introduction).

A list of all parts in the IEC 62505 series, published under the general title *Railway applications – Fixed installations – Particular requirements for AC switchgear*, 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 "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

INTRODUCTION

Where a particular clause/subclause of IEC 61869-3 is not mentioned in this standard, that clause/subclause applies as far as reasonable. Where requirements relate exclusively to three-phase systems or to voltages outside those in use in traction systems, they are not applicable. Where this standard states "addition" or "replacement", the relevant text of IEC 61869-3 is to be adapted accordingly.

The numbering of clauses in the IEC 61869 series is similar to that in the IEC 62505 series.

Where terms defined in IEC 61869-1 and IEC 61869-3 conflict with definitions of the same terms as given in IEC 60050-811:2017 or of the other railway applications documents listed in the normative references, the definitions in IEC 61869-1 and IEC 61869-3 are to be used.

NOTE The suffix N which appears in this standard for rated values is not present in IEC 61869-1 and IEC 61869-3.

References in subclauses of IEC 61869-1 and IEC 61869-3 have to be replaced by references to applicable subclauses in this standard as far as reasonably possible.