

INTERNATIONAL STANDARD

NORME INTERNATIONALE

**Railway applications – Fixed installations – Particular requirements for AC
switchgear –**

Part 1: Circuit-breakers with nominal voltage above 1 kV

**Applications ferroviaires – Installations fixes – Exigences particulières pour
appareillage à courant alternatif –**

Partie 1: Disjoncteurs avec tension nominale supérieure à 1 kV





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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**RAILWAY APPLICATIONS – FIXED INSTALLATIONS –
PARTICULAR REQUIREMENTS FOR AC SWITCHGEAR –****Part 1: Circuit-breakers with nominal voltage above 1 kV**

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International Standard IEC 62505-1 has been prepared IEC technical committee 9: Electrical equipment and systems for railways.

This standard is based on EN 50152-1.

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

The main technical changes with regard to the previous edition are as follows:

This standard was revised to reflect the latest versions of standards referenced and to remove text already included in the IEC 62271 series. The scope was extended to include single-pole and two-pole circuit-breakers. Definitions were added to provide the necessary precision and to meet the needs of railway applications. Table 1 was reworked according to the changes of IEC 62497-1:2010, Table A.2 and Table B.1. Standard values of transient recovery voltage

have been taken from different tables to one, Table 2. Ratings of mechanical endurance previously given under the clause 'type tests' were moved to the new Table 4 'Mechanical endurance classes'. Standard values of prospective transient recovery voltage have been taken from different tables to one, Table 5. Table 6 'Coordination table of rated values for circuit-breakers' of the previous version was removed.

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

FDIS	Report on voting
9/2097/FDIS	9/2133/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.

A list of all parts of IEC 62505 series, under the general title *Railway applications – Fixed installations – Particular requirements for a.c. switchgear*, can be found on the IEC website.

The committee has decided that the contents of this publication will remain unchanged until the stability date indicated on the IEC website 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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