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Railway applications – Fixed installations – DC switchgear – Part 6: DC switchgear assemblies

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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RAILWAY APPLICATIONS – FIXED INSTALLATIONS – DC SWITCHGEAR –

Part 6: DC switchgear assemblies

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IEC 61992-6 edition 1.2 contains the first edition (2006-02) [documents 9/891/FDIS and 9/913/RVD], its amendment 1 (2014-04) [documents 9/1792/CDV and 9/1852/RVC] and its amendment 2 (2020-05) [documents 9/2542/CDV and 9/2584A/RVC].

This Final version does not show where the technical content is modified by amendments 1 and 2. A separate Redline version with all changes highlighted is available in this publication.

International Standard IEC 61992-6 has been prepared by IEC technical committee 9: Electrical equipment and systems for railways.

IEC 61992 consists of the following parts, under the general title *Railway applications – Fixed installations – DC switchgear*:

Part 1: General

Part 2: D.C. circuit breakers

Part 3: Indoor d.c. disconnectors, switch-disconnectors and earthing switches

Part 4: Outdoor d.c. disconnectors, switch-disconnectors and earthing switches

Part 5: Surge arresters and low-voltage limiters for specific use in d.c. systems

Part 6: D.C. switchgear assemblies

Part 7-1: Measurement, control and protection devices for specific use in d.c. traction systems – Application guide

Part 7-2: Measurement, control and protection devices for specific use in d.c. traction systems – Isolating current transducers and other current measuring devices

Part 7-3: Measurement, control and protection devices for specific use in d.c. traction systems – Isolating voltage transducers and other voltage measuring devices

The committee has decided that the contents of the base publication and its amendments will remain unchanged until the stability 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;
- withdrawn;
- replaced by a revised edition, or
- amended.

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RAILWAY APPLICATIONS – FIXED INSTALLATIONS – DC SWITCHGEAR –

Part 6: DC switchgear assemblies

1 Scope

This part of IEC 61992 covers d.c. metal-enclosed and non-metallic enclosed switchgear assemblies used in indoor stationary installations of traction systems, with nominal voltage not exceeding 3 000 V.

It is intended that individual items of equipment, for example circuit breakers, housed in the assembly are designed, manufactured and individually tested (simulating the enclosure when necessary) in accordance with their respective parts of IEC 61992 or, when appropriate, with another applicable standard.

NOTE 1 The requirements covered in this part of IEC 61992 are those concerning the assembly as such, its enclosure and the mutual influence of the equipment enclosed.

NOTE 2 EMC requirements are covered by IEC 62236-5 and additional requirements concerning dependability (RAMS) are covered by IEC 62278.

2 Normative references

The following referenced documents are indispensable for the application 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 60243-1:1998, *Electrical strength of insulating materials – Test methods – Part 1: Tests at power frequencies*

IEC 60529:1989, *Degrees of protection provided by enclosures (IP Code)*

IEC 61992-1:2006+A1:2014, *Railway applications – Fixed installations – DC switchgear – Part 1: General*

IEC 61992-2:2006+A1:2014, *Railway applications – Fixed installations – DC switchgear – Part 2: DC circuit-breakers*

IEC 61992-3:2006, *Railway applications – Fixed installations – DC switchgear – Part 3: Indoor d.c. disconnectors, switch-disconnectors and earthing switches*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 61992-1 and the following apply.

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

- IEC Electropedia: available at http://www.electropedia.org/
- ISO Online browsing platform: available at http://www.iso.org/obp