



BSI Standards Publication

Railway applications — Supply voltages of traction systems

This is a preview of "BS EN 50163:2004+A3:...". [Click here to purchase the full version from the ANSI store.](#)

National foreword

This British Standard is the UK implementation of EN 50163:2004+A3:2022, incorporating corrigenda May 2010 and January 2013. It supersedes BS EN 50163:2004+A2:2020, which will be withdrawn on 29 February 2024.

The start and finish of text introduced or altered by amendment is indicated in the text by tags. Tags indicating changes to CENELEC text carry the number of the CENELEC amendment. For example, text altered by CENELEC amendment A1 is indicated by A1 A1.

The UK participation in its preparation was entrusted to Technical Committee GEL/9/3, Railway Electrotechnical Applications - Fixed Equipment.

A list of organizations represented on this committee can be obtained on request to its committee manager.

The UK committee draws attention to the fact that Subclause 4.2 of this standard includes informative text within NOTE 2 that is poorly worded and might therefore be misinterpreted. Consequently, BSI intends to submit a proposal to CENELEC requesting that NOTE 2 be amended or deleted. Until such time as this change is made within the standard, users are advised to disregard the current published text in NOTE 2.

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Compliance with a British Standard cannot confer immunity from legal obligations.

This British Standard was published under the authority of the Standards Policy and Strategy Committee on 6 January 2005.

Amendments/corrigenda issued since publication

| Date | Text affected |
|-------------------|---|
| 28 September 2007 | Implementation of CENELEC amendment A1:2007 |

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| Date | Text affected |
|------------------|--|
| 31 August 2010 | Implementation of CENELEC corrigendum May 2010: Annex ZZ replaced |
| 30 June 2013 | Implementation of CENELEC corrigendum January 2013: Annex B, Belgium Special National Condition for Subclause 4.1 replaced |
| 31 January 2020 | Additional national foreword text added |
| 29 February 2020 | Implementation of CENELEC amendment A2:2020: Annex ZZ replaced |
| 31 October 2022 | Implementation of CENELEC amendment A3:2022 |

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English Version

Railway applications - Supply voltages of traction systems

Applications ferroviaires - Tensions d'alimentation des réseaux de traction

Bahnanwendungen - Speisespannungen von Bahnnetzen

This European Standard was approved by CENELEC on 2004-07-06. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This European Standard was prepared by SC 9XC, Electric supply and earthing systems for public transport equipment and ancillary apparatus (fixed installations), of the Technical Committee CENELEC TC 9X, Electrical and electronic applications for railways. It also concerns the expertise of SC 9XB, Electromechanical material on board of rolling stock.

For TSI lines, modifications and amendments should be made within a process frame which is related to the legal status of the TSI.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50163 on 2004-07-06.

This European Standard supersedes EN 50163:1995.

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2005-07-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2007-07-01

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directives. See Annex ZZ.

Foreword to amendment A1

This amendment to the European Standard EN 50163:2004 was prepared by SC 9XC, Electric supply and earthing systems for public transport equipment and ancillary apparatus (fixed installations), of Technical Committee CENELEC TC 9X, Electrical and electronic applications for railways.

The text of the draft was submitted to the Unique Acceptance Procedure and was approved by CENELEC as amendment A1 to EN 50163:2004 on 2007-03-01.

The following dates were fixed:

- latest date by which the amendment has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2008-03-01
 - latest date by which the national standards conflicting with the amendment have to be withdrawn (dow) 2010-03-01
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