



SLOVENSKI STANDARD
SIST EN IEC 61133:2022

01-marec-2022

Nadomešča:
SIST EN 50215:2009

Železniške naprave - Vozna sredstva - Preskušanje voznih sredstev po končani gradnji in pred rednim obratovanjem

Railway applications - Rolling stock - Testing of rolling stock on completion of construction and before entry into service

Bahnanwendungen - Bahnfahrzeuge - Prüfung von Bahnfahrzeugen nach Fertigstellung und vor Indienststellung

Applications ferroviaires - Matériel roulant - Essais sur matériel roulant après achèvement et avant mise en service

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Ta slovenski standard je istoveten z: EN IEC 61133:2021

ICS:

29.280	Električna vlečna oprema	Electric traction equipment
45.060.01	Železniška vozila na splošno	Railway rolling stock in general

SIST EN IEC 61133:2022

en

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EUROPEAN STANDARD

EN IEC 61133

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2021

ICS 45.060

Supersedes EN 50215:2009 and all of its amendments
and corrigenda (if any)

English Version

Railway applications - Rolling stock - Testing of rolling stock on completion of construction and before entry into service (IEC 61133:2016)

Applications ferroviaires - Matériel roulant - Essais sur
matériel roulant après achèvement et avant mise en service
(IEC 61133:2016)

Bahnwendungen - Fahrzeuge - Prüfung von
Bahnfahrzeugen nach Fertigstellung und vor
Indienststellung
(IEC 61133:2016)

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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

EN IEC 61133:2021 (E)**European foreword**

This document (EN IEC 61133:2021) consists of the text of IEC 61133:2016 prepared by IEC/TC 9 "Electrical equipment and systems for railways".

The following dates are fixed:

- latest date by which this document has to be (dop) 2022-11-29 implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national standards (dow) 2024-11-29 conflicting with this document have to be withdrawn

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Annex ZA (normative)

Normative references to international publications with their corresponding European publications

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.

NOTE 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60077	series	Railway applications - Electric equipment for rolling stock	EN 60077	series
IEC 60310	2016	Railway applications - Traction transformers and inductors on board rolling stock	EN 60310	2016
IEC 60322	2001	Railway applications - Electric equipment for rolling stock - Rules for power resistors of open construction	EN 60322	2001
IEC 60349	series	Electric traction - Rotating electrical machines for rail and road vehicles	EN 60349	series
IEC 60494-1	2013	Railway applications - Rolling stock - Pantographs - Characteristics and tests - Part 1: Pantographs for main line vehicles	EN 50206-1	2010
IEC 60494-2	2013	Railway applications - Rolling stock - Pantographs - Characteristics and tests - Part 2: Pantographs for metros and light rail vehicles	EN 50206-2	2010
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529 +AC +A1 +A2 +AC +AC	1991 1993 2000 2013 2016 2019
IEC 60571	2012	Railway applications - Electronic equipment used on rolling stock	EN 50155	2021 ¹

¹ For this standard, the directly equivalent European standard has been withdrawn; the standard listed is the current version.

EN IEC 61133:2021 (E)

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60850	2014	Railway applications - Supply voltages of traction systems	EN 50163 + A1 + corrigendum May + AC + A2	2004 2007 2010 2013 2020
IEC 61287	series	Railway applications - Power converters installed on board rolling stock	EN 61287	series
IEC 61377-1	-	Electric traction - Rolling stock - Combined testing - Part 1: Combined testing of inverter-fed alternating current motors and their control	EN 61377	-
IEC 61377-2	-	Railway applications - Rolling stock - Combined testing - Part 2: Chopper-fed direct current traction motors and their control	EN 61377	-
IEC 61377-3	-	Railway applications - Rolling stock - Part 3: Combined testing of alternating current motors, fed by an indirect convertor, and their control system	EN 61377	-
IEC 61991	2000	Railway applications - Rolling stock - Protective provisions against electrical hazards	EN 50153 + A1 + A2	2014 ¹ 2017 ¹ 2020 ¹
IEC 62236-3-1	2008	Railway applications - Electromagnetic compatibility - Part 3-1: Rolling stock - Train and complete vehicle	EN 50121-3-1 + A1	2017 ¹ 2019 ¹
IEC 62236-3-2	2008	Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock - Apparatus	EN 50121-3-2 + A1	2016 ¹ 2019 ¹
IEC 62278	2002	Railway applications - Specification and demonstration of reliability, availability, maintainability and safety (RAMS)	EN 50126-1 EN 50126-2	2017 ¹ 2017 ¹
IEC 62313	2009	Railway applications - Power supply and rolling stock - Technical criteria for the coordination between power supply (substation) and rolling stock	EN 50388 + AC	2012 ¹ 2013 ¹
IEC 62425	-	Railway applications - Communication, signalling and processing systems - Safety related electronic systems for signalling	EN 50129	-
IEC 62427	2007	Railway applications - Compatibility between rolling stock and train detection systems	EN 50238-1	2019 ¹
IEC 62845	-	Railway applications - Radio remote control system of traction vehicles for shunting application	EN 50239	-

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 62846	-	Railway applications - Current collection systems - Requirements for and validation of measurements of the dynamic interaction between pantograph and overhead contact line	EN 50317	-
ISO/IEC 17025 -		General requirements for the competence of testing and calibration laboratories	EN ISO/IEC 17025	-
ISO 3095	-	Acoustics - Railway applications - Measurement of noise emitted by railbound vehicles	EN ISO 3095	-
ISO 3381	-	Railway applications - Acoustics - Measurement of noise inside railbound vehicles	EN ISO 3381	-
ISO 9001	2015	Quality management systems - Requirements	EN ISO 9001	2015

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INTERNATIONAL STANDARD

NORME INTERNATIONALE

iTeh STANDARD

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**RAILWAY APPLICATIONS – ROLLING STOCK –
TESTING OF ROLLING STOCK ON COMPLETION OF
CONSTRUCTION AND BEFORE ENTRY INTO SERVICE**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as “IEC Publication(s)”). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 61133 has been prepared by IEC technical committee 9: Electrical equipment and systems for railways.

This standard is derived from EN 50215.

This third edition cancels and replaces the second edition, published in 2006; it constitutes a technical revision.

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

- References to standards other than international have been removed from the main text so the notes refer solely to Annex B;
- Annex B has been updated with the latest European information, and cross-references between the TSIs and ENs and the clauses of IEC 61133 have been added.

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

FDIS	Report on voting
9/2096/FDIS	9/2132/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.

The committee has decided that the contents of this publication 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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