

SLOVENSKI STANDARD SIST EN IEC 61010-2-091:2021/A11:2021

01-julij-2021

Varnostne zahteve za električno opremo za meritve, nadzor in laboratorijsko uporabo - 2-091. del: Posebne zahteve za rentgenske sisteme v ohišjih

Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-091: Particular requirements for cabinet X-ray systems

Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte - Teil 2 -091: Besondere Anforderungen für Röntgengeräteschränke

Exigences de sécurité pour appareils électriques de mesurage, de régulation et de laboratoire - Partie 2-091: Exigences particulières pour les équipements à rayons X montés en armoire

SIST EN IEC 61010-2-0912021/A112021

https://standards.iteh.ai/catalog/standards/sist/4457dce-b90c-466a-8074-

os://standards.iteh.ai/catalog/standards/sist/44f57dce-b90c-466a-8074-72f39b465493/sist-en-iec-61010-2-091-2021-a11-2021

Ta slovenski standard je istoveten z: EN IEC 61010-2-091:2021/A11:2021

ICS:

19.080 Električno in elektronsko Electrical and electronic

preskušanje testing

71.040.10 Kemijski laboratoriji. Chemical laboratories.

Laboratorijska oprema Laboratory equipment

SIST EN IEC 61010-2-091:2021/A11:2021 en,fr,de

SIST EN IEC 61010-2-091:2021/A11:2021

iTeh STANDARD PREVIEW (standards.iteh.ai)

SIST EN IEC 61010-2-091:2021/A11:2021 https://standards.iteh.ai/catalog/standards/sist/44f57dce-b90c-466a-8074-72f39b465493/sist-en-iec-61010-2-091-2021-a11-2021 EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM EN IEC 61010-2-091:2021/A11

April 2021

ICS 19.080; 71.040.10

English Version

Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-091: Particular requirements for cabinet X-ray systems

Règles de sécurité pour appareils électriques de mesurage, de régulation et de laboratoire - Partie 2-091: Exigences particulières pour les équipements à rayons X montés en armoire Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte - Teil 2-091: Besondere Anforderungen für Röntgengeräteschränke

This amendment A11 modifies the European Standard EN IEC 61010-2-091:2021; it was approved by CENELEC on 2021-04-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

iTeh STANDARD PREVIEW

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member ndards.iten.al

This amendment 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 CEN-CENELEC Management Centre has the same status as the official versions. https://standards.iteh.ai/catalog/standards/sist/4457dce-b90c-466a-8074-

72f39b465493/sist-en-iec-61010-2-091-2021-a11-2021

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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

European foreword

This document (EN IEC 61010-2-091:2021/A11:2021) has been prepared by CLC/TC 66X "Safety of measuring, control, and laboratory equipment".

The following dates are fixed:

- latest date by which this document has (dop) 2022-04-01 to be implemented at national level by publication of an identical national standard or by endorsement
- latest date by which the national (dow) 2024-04-01 standards conflicting with this document have to be withdrawn

This document amends EN IEC 61010-2-091:2021.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For the relationship with EU Directive(s) see informative Annex ZZ, which is an integral part of this document. (standards.iteh.ai)

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1 Modification to 15.1, "General"

Replace 15.1 with the following:

"Replace the existing text and conformity statement with the following new text:

INTERLOCKs used to protect OPERATORS or bystanders both against X-radiation HAZARDS and other HAZARDS shall meet the requirements of 15.2, 15.3, and 15.101.

INTERLOCKs used only to protect OPERATORS or bystanders against X-radiation HAZARDS shall meet the requirements of 15.101.

INTERLOCKs used only to protect OPERATORS or bystanders against other HAZARDS shall meet the requirements of 15.2 and 15.3.

Conformity is checked by inspection and as specified in 15.2, 15.3, and 15.101, as applicable."

2 Addition of Annex ZA, "Normative references to international publications with their corresponding European publications"

Add the following Annex ZA:

"

Annex ZA (normative)

Normative references to international publications with their corresponding European publications (Standards. Itel. al)

SIST EN IEC 61010-2-091;2021/A11;2021

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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.

Annex ZA of EN 61010-1:2010/A1:2019 is applicable, except as follows:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	EN/HD and EN/ISO	<u>Year</u>
IEC 62061	-	Safety of machinery – Functional safety of	EN 62061	2005
•	safety-related electrical, electronic and	+A1	2013	
		programmable electronic control systems	+A2	2015
ISO 13849-1	-	Safety of machinery - Safety-related parts of control systems - Part 1: General principles for design	EN ISO 13849-1	2015

"

3 Addition of Annex ZZ, "Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered"

Add the following Annex ZZ:

"

Annex ZZ

(informative)

Relationship between this European standard and the safety objectives of Directive 2014/35/EU [2014 OJ L96] aimed to be covered

This European Standard has been prepared under a Commission's standardization request relating to harmonized standards in the field of the Low Voltage Directive, M/511, to provide one voluntary means of conforming to safety objectives of Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits I2014 OJ L961.

Once this standard is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of this standard given in Table ZZ.1 confers, within the limits of the scope of this standard, a presumption of conformity with the corresponding safety objectives of that Directive, and associated EFTA regulations.

Table ZZ.1 — Correspondence between this European standard and Annex I of Directive https://standards.itch.2014/35/EU [2014.04 E96]-b90c-466a-8074-

72f39b465493/sist- Safety objectives of Directive 2014/35/EU (Annex I)	Clause(s) / sub- clause(s) of this EN	Remarks / Notes
1. General conditions		
1 (a) the essential characteristics, the recognition and observance of which will ensure that electrical equipment will be used safely and in applications for which it was made, shall be marked on the electrical equipment, or, if this is not possible, on an accompanying document	5.1 5.2 5.3 5.4	
1 (b) the electrical equipment, together with its component parts, shall be made in such a way as to ensure that it can be safely and properly assembled and connected	5.4, 6.6 6.10 6.11 Annex F	

Safety objectives of Directive 2014/35/EU (Annex I)	Clause(s) / sub- clause(s) of this EN	Remarks / Notes					
1 (c) the electrical equipment shall be so designed and manufactured as to ensure that protection against the hazards set out in points 2 and 3 is assured, providing that the equipment is used in applications for which it was made and is adequately maintained	5.4 Annex F, 17 (for hazards not covered by Clauses 6–16) See also the details in points 2 and 3						
2. Protection against hazards arising from the electrical equipment							
Measures of a technical nature shall be laid down in accordance with point 1, in order to ensure that:							
2 (a) persons and domestic animals are adequately protected against the danger of physical injury or other harm which might be caused by direct or indirect contact	4, 6.1 – 6.11, 9.6, 11.6, 14.4 Annex D, Annex F, Annex K						
2 (b) temperatures, arcs or radiation which would cause a danger, are not produced iTeh STAN	4, 4.4.4.2, 6.3.1.b) 2), 6.3.2 b) 2), 9.5, 9.6, 10.1 –10.5, D 42RD PRE	VIEW					
2 (c) persons, domestic animals and property are adequately protected against non-electrical dangers caused by the electrical equipment which are revealed by experience https://standards.itch.ai/catal	da4.4.4.72eh7.ai) 9, 12.3, 12.5, 12.6, 13.1, 13.2, 61016.2091:2021/A11.20 pg/standaru/s/sist/44572/ce-b	21 90c-466a-8074-					
2 (d) the insulation is suitable for foreseeable conditions	4, 6.7, Annex K	11-2021					
3. Protection against hazards which may be caused by external influences on the electrical equipment Technical measures shall be laid down in accordance with point 1, in order to ensure that the electrical equipment:							
3 (a) meets the expected mechanical requirements in such a way that persons, domestic animals and property are not endangered	4, 7, 8						
3 (b) is resistant to non-mechanical influences in expected environmental conditions, in such a way that persons, domestic animals and property are not endangered	1.4, 4, 6.7.2.2.1, 10.5, 11.6, 14.3, 14.8, 14.101, 14.102, 15						
3 (c) does not endanger persons, domestic animals and property in foreseeable conditions of overload	4, 9, 14, 16.1						

WARNING 1 — Presumption of conformity stays valid only as long as a reference to this European standard is maintained in the list published in the Official Journal of the European Union. Users of this standard should consult frequently the latest list published in the Official Journal of the European Union.