

SLOVENSKI STANDARD kSIST FprEN IEC 61010-2-033:2019/oprAA:2020 01-december-2020

Varnostne zahteve za električno opremo za meritve, nadzorovanje in laboratorijsko uporabo - 2-033. del: Posebne zahteve za ročne multimetre in druge merilnike za domačo in profesionalno uporabo, ki omogočajo merjenje omrežne napetosti

Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-033: Particular requirements for hand-held multimeters and other meters for domestic and professional use, capable of measuring mains voltage

iTeh STANDARD PREVIEW

Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte - Teil 2 -033: Besondere Anforderungen an handgehaltene Multimeter und andere handgehaltene Messgeräte für den Haushalt und professionellen Gebrauch, geeignet zur Messung von Netzspannungen bb0042f78445/ksist-fpren-iec-61010-2-033-2019-opraa-2020

Exigences de sécurité pour appareils électriques de mesurage, de régulation et de laboratoire - Partie 2-033: Exigences particulières pour les multimètres portatifs pour usage domestique et professionnel, capables de mesurer la tension reseau

Ta slovenski standard je istoveten z: FprEN IEC 61010-2-033:2019/prAA

ICS:

033:2019/oprAA:2020

19.080	Električno in elektronsko preskušanje	Electrical and electronic testing
71.040.10	Kemijski laboratoriji. Laboratorijska oprema	Chemical laboratories. Laboratory equipment
kSIST FprEN	IEC 61010-2-	en,fr,de

2003-01. Slovenski inštitut za standardizacijo. Razmnoževanje celote ali delov tega standarda ni dovoljeno.

kSIST FprEN IEC 61010-2-033:2019/oprAA:2020

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kSIST FprEN IEC 61010-2-033:2019/oprAA:2020 https://standards.iteh.ai/catalog/standards/sist/57ecf533-b883-4bf3-baf8bb0042f78445/ksist-fpren-iec-61010-2-033-2019-opraa-2020

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

DRAFT FprEN IEC 61010-2-033:2019

prAA September 2020

ICS 19.080; 71.040.10

English Version

Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-033: Particular requirements for hand-held multimeters and other meters for domestic and professional use, capable of measuring mains voltage

Exigences de sécurité pour appareils électriques de mesurage, de régulation et de laboratoire - Partie 2-033: Exigences particulières pour les multimètres portatifs pour usage domestique et professionnel, capables de mesurer la tension reseau Sicherheitsbestimmungen für elektrische Mess-, Steuer-, Regel- und Laborgeräte - Teil 2-033: Besondere Anforderungen an handgehaltene Multimeter und andere handgehaltene Messgeräte für den Haushalt und professionellen Gebrauch, geeignet zur Messung von Netzspannungen

iTeh STANDARD PREVIEW

This draft amendment prAA, if approved, will modify the European Standard FprEN EC 61010-2-033:2019; it is submitted to CENELEC members for enquiry.

Deadline for CENELEC: 2020-12-11, kSIST FprEN IEC 61010-2-033:2019/oprAA:2020

It has been drawn up by ChG/TC:66Xlards.iteh.ai/catalog/standards/sist/57ecf533-b883-4bf3-baf8-

bb0042178445/ksist-fpren-iec-61010-2-033-2019-opraa-2020 If this draft becomes an amendment, 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.

This draft amendment was established by CENELEC 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.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.

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 document (FprEN IEC 61010-2-033:2019/prAA:2020) has been prepared by CLC/TC 66X "Safety of measuring, control, and laboratory equipment".

This document is currently submitted to the Enquiry.

The following dates are proposed:

- latest date by which the existence of this dor + 6 months (doa) document has to be announced at national level latest date by which this document has to be dor + 12 months . (dop) implemented at national level by publication of an identical national standard or by endorsement latest date by which the national standards (dow) dor + 36 months
- latest date by which the national standards (dow) dor + 36 months conflicting with this document have to be (to be confirmed or withdrawn modified when voting)

This document amends FprEN IEC 61010-2-033:2019.

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.

kSIST FprEN IEC 61010-2-033:2019/oprAA:2020 https://standards.iteh.ai/catalog/standards/sist/57ecf533-b883-4bf3-baf8bb0042f78445/ksist-fpren-iec-61010-2-033-2019-opraa-2020

1 Modification to 6.8.3.2, "The d.c. voltage test"

Add a new sentence at the beginning of the first paragraph:

The voltage tester shall have a regulated output capable of maintaining the test voltage throughout the test within \pm 5 % of the specified value."

2 Modifications to K.101.4.1, "General"

Replace the second paragraph of K.101.4.1.1 with the following note:

"NOTE 1 The manufacturer is supposed to take the expected life of the hand-held multimeter into account when selecting insulating materials."

As a result of this, renumber the existing note of K.101.4.1.1 as NOTE 2.

3 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

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://standards.iteh.ai/catalog/standards/sist/57ecf533-b883-4bf3-baf8bb0042f78445/ksist-fpren-iec-61010-2-033-2019-opraa-2020

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

Annex ZA of EN 61010-1:2010¹ is applicable, with the following addition:

Publication	Year	Title	EN/HD and IEC/ISO	Year
IEC 61010-031:2015 +A1	2015 2018	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 031: Safety requirements for hand-held and hand-manipulated probe assemblies for electrical test and measurement		2015 ²
IEC 61010-2-032	-	Safety requirements for electrical equipment for measurement, control and laboratory use – Part 032: Particular requirements for hand-held and hand-manipulated current sensors for electrical test and measurement		3 4
IEC 61180	-	High-voltage test techniques for low-voltage equipment – Definitions, test and procedure requirements, test equipment	EN 61180	2016

¹ As impacted by EN 61010-1:2010/A1:2019 and EN 61010-1:2010/A1:2019/AC:2019-04.

² To be published. Stage at the time of publication: EN 61010-031:2015/FprA1:2018.

³ To be published. Stage at the time of publication: FprEN IEC 61010-032:2019.

⁴ To be published. Stage at the time of publication: FprEN IEC 61010-032:2019/prAA:2020.

4 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 [2014 OJ L96].

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 2014/35/EU [2014 OJ L96]

Safety objectives of Directive 2014/35/EU (Annex I) https://standards.iteh.ai/cata	Clause(s) / sub- C 6101(clause(s) 9/oprA. og/standof(thistEN:cf533-	b883-4bf3-baf8-			
bb0042178445/ksist-fipren-iec-61010-2-033-2019-opraa-2020 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 (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, 101 Annex F				
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	1, 2, 3, 5.4 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:					

Safety objectives of Directive 2014/35/EU (Annex I)	Clause(s) / sub- clause(s) of this EN	Remarks / Notes
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, 101, 102 Annex F, Annex K,	
2 (b) temperatures, arcs or radiation which would cause a danger, are not produced	4, 9.5, 9.6, 10.1 -10.5, 12, 101.3.2, 101.4	
2 (c) persons, domestic animals and property are adequately protected against non-electrical dangers caused by the electrical equipment which are revealed by experience	4, 7.2- 7.7 9, 12.3, 12.5, 12.6, 13.1, 13.2, 16.2, 102	
2 (d) the insulation is suitable for foreseeable conditions	4, 6.7 Annex K	

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 A requirements in such a way that persons, domestic animals and property are not endangered	dards.iteh.ai	VIEW)
3 (b) is resistant to non-mechanical prenties influences in expected environmental ai/cata conditions, in such a way that persons, if domestic animals and property are not endangered	C164014-6-7-33-2019/oprA. of 0:5,04466544.3ect533- '94:8,95010-2-033-2019	<u>4:2020</u> 5883-4bf3-baf8- •opraa-2020
3 (c) does not endanger persons, domestic animals and property in foreseeable conditions of overload	4, 9, 14, 16.1, 101, 102	

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.

WARNING 2 — Other Union legislation may be applicable to the product(s) falling within the scope of this standard."