SVENSK STANDARD SS-EN IEC 61472-2

Fastställd	Utgåva	Sida	Ansvarig kommitté
2022-02-16	1	1 (1+17)	SEK TK 78

Arbete med spänning – Minimiavstånd – Del 2: Metod för bestämning av minimiavstånd vid systemspänning över 1,0 kV upp till och med 72,5 kV AC

Live working – Minimum approach distances – Part 2: Method of determination of the electrical component distance for AC systems from 1,0 kV to 72,5 kV

Som svensk standard gäller europastandarden EN IEC 61472-2:2021. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 61472-2:2021.

Nationellt förord

Europastandarden EN IEC 61472-2:2021

består av:

- **europastandardens ikraftsättningsdokument,** utarbetat inom CENELEC
- **IEC 61472-2, First edition, 2021 - Live working - Minimum approach distances - Part 2: Method of determination of the electrical component distance for AC systems from 1,0 kV to 72,5 kV**

utarbetad inom International Electrotechnical Commission, IEC.

ICS 13.260.00; 29.240.99; 29.260.99

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EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN IEC 61472-2

April 2021

ICS 13.260; 29.240.99; 29.260.99

English Version

Live working - Minimum approach distances - Part 2: Method of determination of the electrical component distance for AC systems from 1,0 kV to 72,5 kV (IEC 61472-2:2021)

Travaux sous tension - Distances minimales d'approche - Partie 2: Méthode de détermination de la distance du composant électrique pour les réseaux en courant alternatif de tension comprise entre 1,0 kV et 72,5 kV (IEC 61472-2:2021)

Arbeiten unter Spannung - Mindestarbeitsabstände - Teil 2: Berechnungsverfahren für Abstände in Wechselspannungsnetzen größer 1,0 kV bis 72,5 kV (IEC 61472-2:2021)

This European Standard was approved by CENELEC on 2021-04-13. 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.

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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 CEN-CENELEC Management Centre has the same status as the official versions.

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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

Ref. No. EN IEC 61472-2:2021 E

European foreword

The text of document 78/1319/FDIS, future edition 1 of IEC 61472-2, prepared by IEC/TC 78 "Live working" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61472-2:2021.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2022-01-13
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2024-04-13

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.

Endorsement notice

The text of the International Standard IEC 61472-2:2021 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60038:2009	NOTE	Harmonized as EN 60038:2011
IEC 60060-1:2010	NOTE	Harmonized as EN 60060-1:2010 (not modified)
IEC 60071-1:2019	NOTE	Harmonized as EN IEC 60071-1:2019 (not modified)
IEC 60071-2:2018	NOTE	Harmonized as EN IEC 60071-2:2018 (not modified)
IEC 61472:2013	NOTE	Harmonized as EN 61472:2013 (not modified)
IEC 61477:2009	NOTE	Harmonized as EN 61477:2009 (not modified)

IEC 61472-2

Edition 1.0 2021-03

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Live working – Minimum approach distances – Part 2: Method of determination of the electrical component distance for AC systems from 1,0 kV to 72,5 kV

Travaux sous tension – Distances minimales d'approche – Partie 2: Méthode de détermination de la distance du composant électrique pour les réseaux en courant alternatif de tension comprise entre 1,0 kV et 72,5 kV

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FOREWORD

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International Standard IEC 61472-2 has been prepared by IEC technical committee technical committee 78: Live working.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
78/1319/FDIS	78/1326/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 61472 series, published under the general title *Live working – Miminum approach distances*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

LIVE WORKING – MINIMUM APPROACH DISTANCES –

Part 2: Method of determination of the electrical component distance for AC systems from 1,0 kV to 72,5 kV

1 Scope

This part of IEC 61472 specifies a method for determining the electrical component of the minimum approach distances for live working, for AC systems 1 kV up to and including 72,5 kV. This document addresses system overvoltages and the working air distances between equipment and/or workers at different potentials.

The withstand voltage and minimum approach distances determined by the method described in this document can be used only if the following working conditions prevail:

– workers are trained for, and skilled in, working live lines or close to live conductors or equipment;
– the operating conditions are adjusted so that the statistical overvoltage does not exceed the value selected for the determination of the required withstand voltage;
– transient overvoltages are the determining overvoltages;
– tool insulation has no continuous film of moisture present on the surface;
– no lightning is observed within 10 km of the work site;
– allowance is made for the effect of the conducting components of tools.

NOTE In some countries, special procedures have been developed to permit live working with surface moisture on tools at distribution voltages (below 50 kV).

2 Normative references

There are no normative references in this document.