



NSAI
Standards

Irish Standard
I.S. EN 61219:1993

Live working - Earthing or earthing and short-circuiting equipment using lances as short-circuiting device - Lance earthing

I.S. EN 61219:1993

Incorporating amendments/corrigenda/National Annexes issued since publication:

The National Standards Authority of Ireland (NSAI) produces the following categories of formal documents:

I.S. xxx: Irish Standard — national specification based on the consensus of an expert panel and subject to public consultation.

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This document replaces/revises/consolidates the NSAI adoption of the document(s) indicated on the CEN/CENELEC cover/Foreword and the following National document(s):

NOTE: The date of any NSAI previous adoption may not match the date of its original CEN/CENELEC document.

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EN 61219:1993

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Údarás um Chaighdeáin Náisiúnta na hÉireann

EUROPEAN STANDARD

EN 61219

NORME EUROPEENNE

EUROPÄISCHE NORM

December 1993

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Descriptors: Live working, characteristics, tests, earthing device,
short-circuiting device, lance

ENGLISH VERSION

Live working - Earthing or earthing and
short-circuiting equipment using lances as a
short-circuiting device - Lance earthing
(IEC 1219:1993)

Travaux sous tension - Appareil
de mise à la terre ou de mise à
la terre et en court-circuit
utilisant des cannes comme
dispositif de mise en
court-circuit - Mise à la terre
au moyen de cannes
(CEI 1219:1993)

Arbeiten unter Spannung
Erdungs- oder Erdungs- und
KurzschlieÙvorrichtung
mit Stäben als
kurzschlieÙendes Gerät
Staberdung
(IEC 1219:1993)

I.S. EN 61219:1993

This European Standard was approved by CENELEC on 1993-09-22.
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,
Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg,
Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

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FOREWORD

The text of document 78(CO)74, as prepared by IEC Technical Committee 78: Tools for live working, was submitted to the IEC-CENELEC parallel vote in December 1992.

The reference document was approved by CENELEC as EN 61219 on 22 September 1993.

The following dates were fixed:

- latest date of publication of
an identical national standard (dop) 1994-10-01
- latest date of withdrawal of
conflicting national standards (dow) 1994-10-01

For products which have complied with the relevant national standard before 1994-10-01, as shown by the manufacturer or by a certification body, this previous standard may continue to apply for production until 1999-10-01.

Annexes designated "normative" are part of the body of the standard.
Annexes designated "informative" are given only for information.
In this standard, annexes A, B, C and ZA are normative.

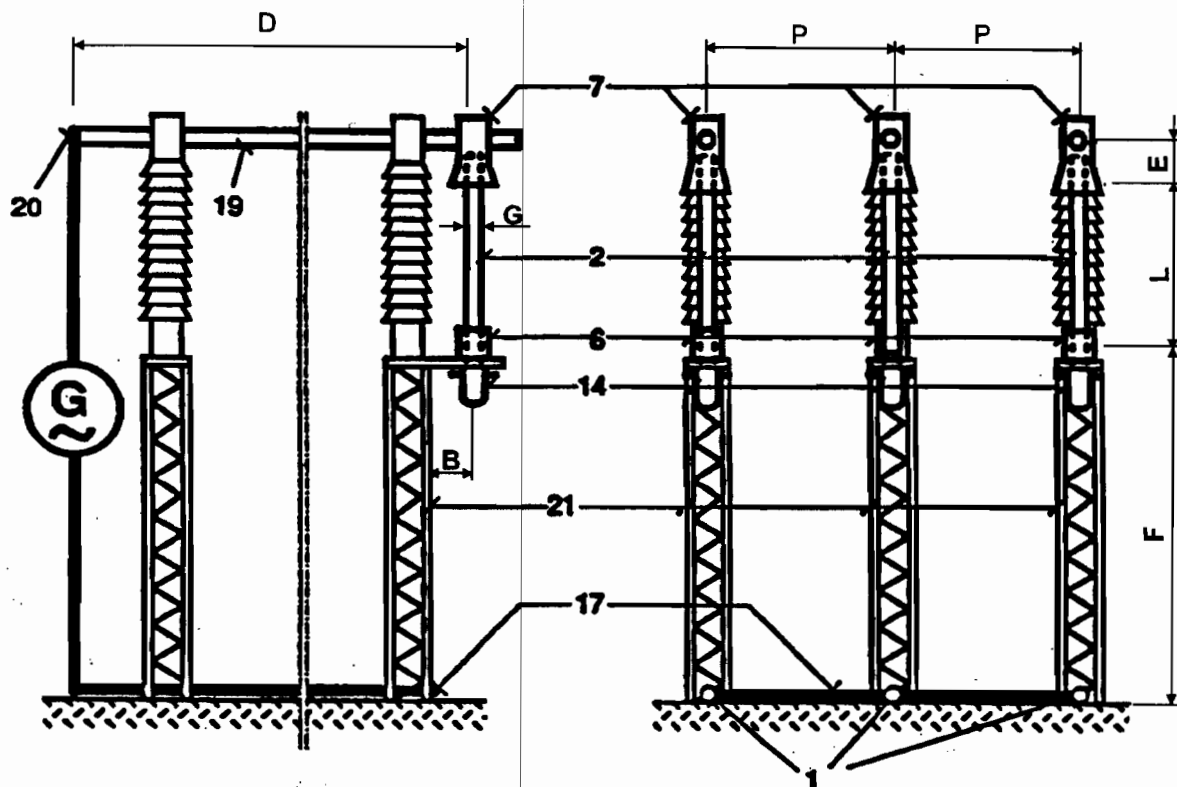
I.S. EN 61219:1993

ENDORSEMENT NOTICE

The text of the International Standard IEC 1219:1993 was approved by CENELEC as a European Standard without any modification.

Editorial:

Replace figure 7 by the new figure given on page 3.



I.S. EN 61219:1993

- B = Distance between the lance and the current transmitting mechanical support
 D = Distance from the test current feed-in point to the lance centre, ≥ 2 m (see Annex B)
 E = Distance between the test set up conductor and the centre of the lance contact
 F = Distance between the earthing lance contact and the earthed short-circuiting conductor (part of the earthing system)
 G = Diameter of the lance
 L = Distance between the centre of the line lance contact and the centre of the earthing lance contact
 P = Phase distance for the lance earthing to be tested, for example according to Table B1 (see Annex B)
- 1 Earth clamp
 2 Lance
 6 Earthing lance contact
 7 Line lance contact
 14 Part of detachable coupling
 17 Earthed short-circuiting conductor (part of earthing system)
 19 Test set up conductor
 20 Test current feed-in point
 21 Current transmitting mechanical support

Note: The indication of the values for B, E, F and G is necessary for the design of lance earthings performed by methods of calculation based on the values of a certain lance earthing which has been type tested.

This method is under consideration in BTTF 61-3.

Figure 7 - Typical set up for lance earthings with voltages > 36 kV

ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD
WITH THE REFERENCES OF THE RELEVANT EUROPEAN PUBLICATIONS

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

NOTE : When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

IEC Publication	Date	Title	EN/HD	Date
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50(151)	1978	International Electrotechnical Vocabulary (IEV) - Chapter 151: Electrical and magnetic devices	-	-
60-1	1989	High-voltage test techniques Part 1: General definitions and test requirements (+ corrigenda March 1990 and March 1992)	HD 588.1 S1	1991
		I.S. EN 61219:1993		
298	1990	A.C. metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	HD 187 S5	1992
410	1973	Sampling plans and procedures for inspection by attributes	-	-
439-1	1992	Low-voltage switchgear and controlgear assemblies - Part 1: Type-tested and partially type-tested assemblies (+ corrigendum December 1993)	EN 60439-1	1994
479-1	1984	Effects of current passing through the human body - Part 1: General aspects. Chapter 1: Electrical impedance of the human body. Chapter 2: Effects of alternating current in the range of 15 Hz to 100 Hz. Chapter 3: Effects of direct current	-	-
855, mod	1985	Insulating foam-filled tubes and solid rods for live working	HD 496 S1	1988
1138	1992	Cables for portable earthing and short-circuiting equipment	-	-
1230	1993	Live working - Portable equipment for earthing or earthing and short-circuiting	-	-
1235	1993	Live working - Insulating hollow tubes for electrical purposes	-	-

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