



National Standards Authority of Ireland

IRISH STANDARD

**I.S. EN 61330:1999**

ICS 29.240.10

**HIGH-VOLTAGE/LOW-VOLTAGE  
PREFABRICATED SUBSTATIONS  
(IEC 1330:1995)**

National Standards  
Authority of Ireland  
Dublin 9  
Ireland

Tel. (01) 807 3800  
Tel (01) 807 3838

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**EN 61330**

January 1996

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ICS 29.240.00

Descriptors: High-voltage, prefabricated substations, earthing, auxiliary equipment

English version

**High-voltage/low-voltage prefabricated substations  
(IEC 1330:1995)**

Postes préfabriqués haute tension/  
basse tension  
(CEI 1330:1995)

Fabrikfertige Stationen für  
Hochspannung/Niederspannung  
(IEC 1330:1995)

This European Standard was approved by CENELEC on 1995-11-28. 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

### Foreword

The text of document 17C/168 + 168A/FDIS, future edition 1 of IEC 1330, prepared by SC 17C, *High-voltage enclosed switchgear and controlgear*, of IEC TC 17, Switchgear and controlgear, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61330 on 1995-11-28.

The following dates were fixed:

- latest date by which the EN has to be implemented  
at national level by publication of an identical  
national standard or by endorsement (dop) 1996-09-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 1996-09-01

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annexes A, B, C and ZA are normative and annex D is informative.

Annex ZA has been added by CENELEC.

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### Endorsement notice

The text of the International Standard IEC 1330:1995 was approved by CENELEC as a European Standard without any modification.

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**Annex ZA (normative)****Normative references to international publications  
with their corresponding 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 (including amendments).

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

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 50(151)	1978	International electrotechnical vocabulary Chapter 151: Electrical and magnetic devices	-	-
IEC 50(441)	1984	Chapter 441: Switchgear, controlgear and fuses	-	-
IEC 60-1	1989	High-voltage test techniques Part 1: General definitions and test requirements	HD 588.1 S1	1991
IEC 68-2-62	1991	Environmental testing Part 2: Test methods - Test Ef: Impact, pendulum hammer		
+ A1	1993		EN 60068-2-62	1995
IEC 71-2	1976	Insulation co-ordination - Part 2: Application guide	HD 540.2 S1	1991
IEC 76-1	1993 <sup>1)</sup>	Power transformers - Part 1: General	-	-
IEC 76-2	1993 <sup>2)</sup>	Part 2: Temperature rise	-	-
IEC 76-5 (mod)	1976	Part 5: Ability to withstand short-circuit	HD 398.5 S1	1983
IEC 243-1 (mod)	1988	Methods of test for electric strength of solid insulating materials - Part 1: Tests at power frequencies	HD 559.1 S1	1991
IEC 298	1990	A.C. metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	EN 60298	1996

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1) IEC 76-1:1976 is harmonized as HD 398.1 S1:1980.

2) IEC 76-2:1976 is harmonized as HD 398.2 S1:1980.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 354	1991	Loading guide for oil-immersed power transformers (Corrigendum 1992)	-	-
IEC 364-4-41 (mod)	1992	Electrical installations of buildings Part 4: Protection for safety Chapter 41: Protection against electric shock	HD 384.4.41 S2	1996
IEC 439-1	1992	Low-voltage switchgear and controlgear assemblies Part 1: Type-tested and partially type-tested assemblies	EN 60439-1 <sup>3)</sup> + corr. August 1994 + corr. February 1995	1994 1994 1995
IEC 466	1987	A.C. insulation-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 38 kV	-	-
IEC 529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May 1993	1991 1993
IEC 551 (mod)	1987	Determination of transformer and reactor sound levels	EN 60551	1992
IEC 664-1	1992	Insulation co-ordination for equipment within low-voltage systems Part 1: Principles, requirements and tests	-	-
IEC 694	1980	Common clauses for high-voltage switchgear and controlgear standards	HD 448 S3 <sup>4)</sup>	1995
IEC 726 (mod)	1982	Dry-type power transformers	HD 464 S1 <sup>5)</sup> + A2 + A3 + A4	1988 1991 1992 1995
IEC 905	1987	Loading guide for dry-type power transformers	-	-
IEC 947-1 (mod)	1988	Low-voltage switchgear and controlgear Part 1: General rules	EN 60947-1 + corr. March 1993 A11	1991 1993 1994
IEC 1180-1	1992	High-voltage test techniques for low-voltage equipment Part 1: Definitions, test and procedure requirements	EN 61180-1	1994
ISO 1052	1982	Steels for general engineering purposes	-	-

3) EN 60439-1 includes corrigendum December 1993 to IEC 439-1.

4) HD 448 S3 includes A1:1985 + A2:1993 to IEC 694.

5) HD 464 S1 includes A1:1986 to IEC 726.

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