

IRISH STANDARD

I.S. HD 448 S4:1999

ICS 29.130.10

COMMON CLAUSES FOR HIGH-VOLTAGE
SWITCHGEAR AND CONTROLGEAR
STANDARDS

National Standards Authority of Ireland Glasnevin, Dublin 9 Ireland

Tel: +353 1 807 3800 Fax: +353 1 807 3838 http://www.nsai.ie

Sales

http://www.standards.ie

This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on:

January 29, 1999

NO COPYING WITHOUT NSAI PERMISSION EXCEPT AS PERMITTED BY COPYRIGHT LAW

© NSAI 1999

Price Code Z

Údarás um Chaighdeáin Náisiúnta na hÉireann

This is a free page sample. Access the full version online.

HARMONIZATION DOCUMENT DOCUMENT D'HARMONISATION HARMONISIERUNGSDOKUMENT

HD 448 S4

January 1996

ICS 29,120,60

Supersedes HD 448 S3:1995

Descriptors: High-voltage switchgear and controlgear, requirements, testing

English version

Common clauses for high-voltage switchgear and controlgear standards

(IEC 694:1980 + A3:1995)

Clauses communes pour les normes de l'appareillage à haute tension (CEI 694:1980 + A3:1995)

Gemeinsame Bestimmungen für Hochspannungsschaltgeräte-Normen (IEC 694:1980 + A3:1995)

This Harmonization Document 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 implementation of this Harmonization Document on a national level.

Up-to-date lists and bibliographical references concerning such national implementation may be obtained on application to the Central Secretariat or to any CENELEC member.

This Harmonization Document exists in three official versions (English, French, German).

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

Page 2 HD 448 S4:1996

Foreword

The text of the International Standard IEC 694:1980 and its amendments 1:1985 and 2:1993, prepared by SC 17A, High-voltage switchgear and controlgear, of IEC TC 17, Switchgear and controlgear, was approved by CENELEC as HD 448 S3 on 1994-12-06.

The text of document 17A/17C/454/FDIS, future amendment 3 to IEC 694:1980, was submitted to the IEC-CENELEC parallel vote.

The combined text was approved by CENELEC as HD 448 S4 on 1995-11-28.

The following dates were fixed:

- latest date by which the existence of the HD
 has to be announced at national level (doa) 1996-03-01
 latest date by which the HD has to be implemented
 at national level by publication of a harmonized
 national standard or by endorsement (dop) 1996-09-01
 latest date by which the national standards conflicting
- with the HD have to be withdrawn (dow) 1996-09-01

Annexes designated "normative" are part of the body of the standard. In this standard, annexes A, B, ZA and ZB are normative.

Annexes ZA and ZB have been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 694:1980 and its amendment 3:1994 (incorporating amendments 1:1985 and 2:1993) was approved by CENELEC as a Harmonization Document without any modification.

Annex ZA (normative)

Special national conditions

Special national condition: National characteristic or practice that cannot be changed even over a long period, e.g. climatic conditions, electrical earthing conditions. If it affects harmonization, it forms part of the European Standard or Harmonization Document.

For the countries in which the relevant special national conditions apply these provisions are normative, for other countries they are informative.

Belgium

Rated voltages

There are appreciable discrepancies between actual network voltages and the next highest IEC rated voltages, two additional rated voltages are permitted, those being 41,5 kV and 82,5 kV.

The rated lightning impulse withstand voltage and the rated one minute power-frequency withstand voltage related to these values are given in the table below.

Rated voltage U (r.m.s. value)	,	ning impulse (peak value)	Rated 1 min power-frequency withstand voltage (r.m.s. value)			
	List 1				List 2	
	to earth, between poles and across open swit- ching device (kV)	Across the isolating distance	To earth, between poles and across open swit- cning device (kV)	Across the isolating distance (kV)	To earth, between poles and across open swit- ching device (kV)	Across the isolating distance
(1)	(2)	(3)	(4)	(5)	(6)	(7)
41,5 82,5	170 380	195 440	200 380	230 14 0	80 150	92 175

Page 4 HD 448 S4:1996

Annex ZB (normative)

Normative references to international publications with their corresponding European publications

This Harmonizationdocument 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 Harmonizationdocument 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>	EN/HD	<u>Year</u>
IEC 38	1975¹)	IEC standard voltages	-	-
IEC 50(441)	1974	International Electrotechnical Vocabulary (IEV) Chapter 441: Switchgear, controlgear and fuses	-	-
IEC 59	1938	IEC standard current ratings	-	-
IEC 60-1	1989	High-voltage test techniques Part 1: General definitions and test requirements	HD 588.1 S1	1991
IEC 71-1	1976 ²¹	Insulation co-ordination Part 1: Terms, definitions, principles and rules	-	-
IEC 71-2	1976	Part 2: Application guide	HD 540.2 S1	1991
IEC 71-3	1982	Phase-to-phase insulation co-ordination Principles, rules and application guide	HD 540.3 S1	1991
IEC 85	1957 ³⁾	Recommendations for the classification of materials for the insulation of electrical machinery and apparatus in relation to their thermal stability in service	-	-
IEC 117-1	1960	Recommended graphical symbols Part 1: Kind of current, distribution, methods of connection and circuit elements	-	-

¹⁾ IEC 38:1983, mod., is harmonized as HD 472 S1:1989.

²⁾ IEC 71-1:1993 is harmonized as EN 60071-1:1995.

³⁾ IEC 85:1984, *Thermal evaluation and classification of electrical insulation*, is harmonized as HD 566 S1:1990.



	This is a free preview.	Purchase the e	entire publication	at the link below:
--	-------------------------	----------------	--------------------	--------------------

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation