



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 61660-1:1999

ICS 17.220.01

**SHORT-CIRCUIT CURRENTS IN D.C.  
AUXILIARY INSTALLATIONS IN POWER  
PLANTS AND SUBSTATIONS. PART 1:  
CALCULATION OF SHORT-CIRCUIT  
CURRENTS (IEC 61660-1:1997)**

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**EUROPEAN STANDARD**  
**NORME EUROPÉENNE**  
**EUROPÄISCHE NORM**

**EN 61660-1**

July 1997

ICS 29.240.01

Descriptors: Short-circuit current, auxiliary installations, power plants, substation, calculation of currents

English version

**Short-circuit currents in d.c. auxiliary installations  
in power plants and substations  
Part 1: Calculation of short-circuit currents  
(IEC 61660-1:1997)**

Courants de court-circuit dans les  
installations auxiliaires alimentées  
en courant continu dans les centrales  
et les postes  
Partie 1: Calcul des courants de  
court-circuit  
(CEI 61660-1:1997)

Kurzschlußströme in  
Gleichstrom-Eigenbedarfsanlagen  
in Kraftwerken und Schaltanlagen  
Teil 1: Berechnung der  
Kurzschlußströme  
(IEC 61660-1:1997)

This European Standard was approved by CENELEC on 1997-07-01. 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.

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**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 73/84/FDIS, future edition 1 of IEC 61660-1, prepared by IEC TC 73, Short-circuit currents, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61660-1 on 1997-07-01.

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) 1998-04-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 1998-04-01

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

Annexes designated "informative" are given for information only.

In this standard, annex ZA is normative and annex A is informative.

Annex ZA has been added by CENELEC.

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### Endorsement notice

The text of the International Standard IEC 61660-1:1997 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 60038 (mod)	1983	IEC standard voltages <sup>1)</sup>	HD 472 S1	1989
IEC 60050(151)	1978	International Electrotechnical Vocabulary (IEV) Chapter 151: Electrical and magnetic devices	-	-
IEC 60050(441)	1984	Chapter 441: Switchgear, controlgear and fuses	-	-
IEC 60896-1	1987	Stationary lead-acid batteries - General requirements and methods of test Part 1: Venté types		
+ A1	1988		EN 60896-1	1991
A2	1990		A2	1992
IEC 60909 (mod)	1988	Short-circuit current calculation in three-phase a.c. systems	HD 533 S1	1991
IEC 61660-2	1997	Short-circuit currents in d.c. auxiliary installations in power plants and substations Part 2: Calculation of effects	EN 61660-2	1997

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1) The title of HD 472 S1 is: Nominal voltages for low-voltage public electricity supply systems.



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