



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60110-1:2003

ICS 29.120.99

**POWER CAPACITORS FOR INDUCTION**

**HEATING INSTALLATIONS**

**PART 1: GENERAL**

**(IEC 60110-1:1998)**

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Údarás um Chaighdeán Náisiúnta na hÉireann



EUROPEAN STANDARD

**EN 60110-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1998

ICS 29.120.99

Supersedes HD 207 S1:1977

Descriptors: Induction heating, capacitors, power capacitors, capacitor banks, definitions, generalities, quality, capacity measurements, dielectric strength tests, leak test, thermal stability, safety, installation, marking

English version

**Power capacitors for induction heating installations**  
**Part 1: General**  
(IEC 60110-1:1998)

Condensateurs de puissance pour les  
installations de génération de chaleur  
par induction  
Partie 1: Généralités  
(CEI 60110-1:1998)

Leistungskondensatoren für induktive  
Erwärmungsanlagen  
Teil 1: Allgemeines  
(IEC 60110-1:1998)

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This European Standard was approved by CENELEC on 1998-08-01. 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.

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, Czech Republic, 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 33/289/FDIS, future edition 1 of IEC 60110-1, prepared by IEC TC 33, Power capacitors, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60110-1 on 1998-08-01.

This European Standard supersedes HD 207 S1:1977.

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) 1999-05-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2001-05-01

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

Annexes designated "informative" are given for information only.

In this standard, annexes A and ZA are normative and annexes B and C are informative.  
Annex ZA has been added by CENELEC.

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### Endorsement notice

The text of the International Standard IEC 60110-1:1998 was approved by CENELEC as a European Standard without any modification.

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

IEC 60252	NOTE: Harmonized as EN 60252:1994 (modified).
IEC 60358	NOTE: Harmonized as HD 597 S1:1992 (not modified).
IEC 61048	NOTE: Harmonized as EN 61048:1993 (modified).
IEC 61049	NOTE: Harmonized as EN 61049:1993 (modified).
IEC 61071-1	NOTE: Harmonized as EN 61071-1:1996 (modified).
IEC 61270-1	NOTE: Harmonized as EN 61270-1:1996 (not modified).

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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 60050(436)	1990	International Electrotechnical Vocabulary (IEV) - Chapter 436: Power capacitors	-	-
IEC 60110-2	- <sup>1)</sup>	Power capacitors for induction heating installations Part 2: Ageing test, destruction test and requirements for disconnecting internal fuses	-	-
IEC 60143	series	Series capacitors for power systems	EN 60143	series
IEC 60831	series	Shunt power capacitors of the self-healing type for a.c. systems having a rated voltage up to and including 1 kV	EN 60831	series
IEC 60871	series	Shunt capacitors for a.c. power systems having a rated voltage above 1 kV	EN 60871	series
IEC 60931	series	Shunt power capacitors of the non-self-healing type for a.c. systems having a rated voltage up to and including 1 kV	EN 60931	series
IEC 60996	1989	Method for verifying accuracy of tan delta measurements applicable to capacitors	-	-

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1) To be published.



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