



NSAI
Standards

Irish Standard
I.S. EN 60143-4:2010

Series capacitors for power systems -- Part 4: Thyristor controlled series capacitors (IEC 60143-4:2010 (EQV))

I.S. EN 60143-4:2010

Incorporating amendments/corrigenda issued since publication:

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SWiFT xxx: A rapidly developed recommendatory document based on the consensus of the participants of an NSAI workshop.

<i>This document replaces:</i>	<i>This document is based on:</i> EN 60143-4:2010	<i>Published:</i> 17 December, 2010
This document was published under the authority of the NSAI and comes into effect on: 12 January, 2011		ICS number: 29.240.99 31.060.70
NSAI 1 Swift Square, Northwood, Santry Dublin 9	T +353 1 807 3800 F +353 1 807 3838 E standards@nsai.ie W NSAI.ie	Sales: T +353 1 857 6730 F +353 1 857 6729 W standards.ie
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English version

**Series capacitors for power systems -
Part 4: Thyristor controlled series capacitors
(IEC 60143-4:2010)**

Condensateurs série destinés à être
installés sur des réseaux -
Partie 4: Condensateurs série
commandés par thyristors
(CEI 60143-4:2010)

Reihenkondensatoren für
Starkstromanlagen -
Teil 4: Thyristorgesteuerte
Reihenkondensatoren
(IEC 60143-4:2010)

This European Standard was approved by CENELEC on 2010-12-01. 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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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 33/472/FDIS, future edition 1 of IEC 60143-4, prepared by IEC TC 33, Power capacitors, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60143-4 on 2010-12-01.

This part of EN 60143 is to be used in conjunction with the following standards:

- EN 60143-1:2004, *Series capacitors for power systems – Part 1: General*
- EN 60143-2:1994, *Series capacitors for power systems – Part 2: Protective equipment for series capacitor banks*
- EN 60143-3:1998, *Series capacitors for power systems – Part 3: Internal fuses*

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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) 2011-09-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2013-12-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60143-4:2010 was approved by CENELEC as a European Standard without any modification.

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

- [1] IEC 60068-1 NOTE Harmonized as EN 60068-1.
 - [2] IEC 60721-1 NOTE Harmonized as EN 60721-1.
 - [3] IEC 60068-3-3 NOTE Harmonized as EN 60068-3-3.
 - [4] IEC 60060-2 NOTE Harmonized as EN 60060-2.
 - [5] IEC 61000-4-2 NOTE Harmonized as EN 61000-4-2.
-

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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	-	International Electrotechnical Vocabulary (IEV) - Chapter 436: Power capacitors	-	-
IEC 60060-1	-	High-voltage test techniques - Part 1: General definitions and test requirements	EN 60060-1	-
IEC 60068-1	-	Environmental testing - Part 1: General and guidance	EN 60068-1	-
IEC 60068-2-2	-	Environmental testing - Part 2-2: Tests - Test B: Dry heat	EN 60068-2-2	-
IEC 60068-2-78	-	Environmental testing - Part 2-78: Tests - Test Cab: Damp heat, steady state	EN 60068-2-78	-
IEC 60071-1	-	Insulation co-ordination - Part 1: Definitions, principles and rules	EN 60071-1	-
IEC 60071-2	-	Insulation co-ordination - Part 2: Application guide	EN 60071-2	-
IEC 60076-1	1993	Power transformers - Part 1: General	EN 60076-1	1997
IEC 60076-6	2007	Power transformers - Part 6: Reactors	EN 60076-6	2008
IEC 60143-1	2004	Series capacitors for power systems - Part 1: General	EN 60143-1	2004
IEC 60143-2	1994	Series capacitors for power systems - Part 2: Protective equipment for series capacitor banks	EN 60143-2	1994
IEC 60143-3	1998	Series capacitors for power systems - Part 3: Internal fuses	EN 60143-3	1998

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<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60255-5	-	Electrical relays - Part 5: Insulation coordination for measuring relays and protection equipment - Requirements and tests	EN 60255-5	-
IEC 60255-21	Series	Electrical relays - Part 21: Vibration, shock, bump and seismic tests on measuring relays and protection equipment	EN 60255-21	Series
IEC 60270	-	High-voltage test techniques - Partial discharge measurements	EN 60270	-
IEC 61000-4-29	-	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	EN 61000-4-29	-
IEC 61954	1999	Power electronics for electrical transmission and distribution systems - Testing of thyristor valves for static VAR compensators	EN 61954	1999

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

SERIES CAPACITORS FOR POWER SYSTEMS –

Part 4: Thyristor controlled series capacitors

FOREWORD

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International Standard IEC 60143-4 has been prepared by IEC technical committee 33: Power capacitors and their applications.

This part of IEC 60143 is to be used in conjunction with the following standards:

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The text of this standard is based on the following documents:

FDIS	Report on voting
33/472/FDIS	33/478/RVD

Full information on the voting for the approval of this standard can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts of IEC 60143 series, under the general title *Series capacitors for power systems* can be found on the iec website.

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