



NSAI
Standards

Irish Standard
I.S. EN 60358-3:2014

Coupling capacitors and capacitor dividers - Part 3: AC or DC coupling capacitors for harmonic-filters applications

I.S. EN 60358-3:2014

Incorporating amendments/corrigenda/National Annexes issued since publication:

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EUROPEAN STANDARD

EN 60358-3

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2014

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Supersedes HD 597 S1:1992 (partially)

English version

**Coupling capacitors and capacitor dividers -
Part 3: AC or DC coupling capacitors for harmonic-filters applications
(IEC 60358-3:2013)**

Condensateurs de couplage et diviseurs
capacitifs - Partie 3: Condensateur de
couplage à courant alternatif ou à courant
continu pour des applications à filtres
harmoniques
(CEI 60358-3:2013)

Kopplungskondensatoren und kapazitive
Teiler – Teil 3: Kopplungskondensatoren
für Wechsel- oder Gleichstrom als
Oberwellenfilter
(IEC 60358-3:2013)

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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B - 1000 Brussels

Foreword

The text of document 33/510/CDV, future edition 1 of IEC 60358-3, prepared by IEC/TC 33, "Power capacitors and their applications" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60358-3:2014.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2014-10-01
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2017-01-01

This document supersedes HD 597 S1:1992 (partially).

This European Standard is to be used in conjunction with EN 60358-1:2012 and its amendments.

This Part 3 supplements or modifies the corresponding clauses in EN 60358-1:2012.

When a particular subclause of Part 1 is not mentioned in this Part 3, that subclause applies as far as is reasonable. Where this standard states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

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In the official version, for Bibliography, the following note has to be added for the standard indicated:

IEC 60633 NOTE Harmonized as EN 60633.

Annex ZA
(normative)
Normative references to international publications
with their corresponding European publications

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. 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.

Replace Annex ZA of EN 60358-1:2012 with the following:

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60060-1	2010	High-voltage test techniques - Part 1: General definitions and test requirements	EN 60060-1	2010
IEC 60060-2	-	High-voltage test techniques - Part 2: Measuring systems	EN 60060-2	-
IEC 60358-1 + corr. July	2012 2013	Coupling capacitors and capacitor dividers - Part 1: General rules	EN 60358-1 + AC:2013	2012 2013
IEC 60358-2	-	Coupling capacitors and capacitor dividers - Part 2: AC or DC single-phase coupling capacitor connected between line and ground for power line carrier-frequency (PLC) application	EN 60358-2	-
IEC 60481	-	Coupling devices for power line carrier systems	-	-
IEC 61869-5	-	Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers	EN 61869-5	-

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IEC 60358-3

Edition 1.0 2013-11

INTERNATIONAL STANDARD

NORME INTERNATIONALE



**Coupling capacitors and capacitor dividers –
Part 3: AC or DC coupling capacitor for harmonic-filters applications**

**Condensateurs de couplage et diviseurs capacitifs –
Partie 3: Condensateur de couplage à courant alternatif ou à courant continu
pour des applications à filtres harmoniques**





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INTERNATIONAL STANDARD

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Part 3: AC or DC coupling capacitor for harmonic-filters applications**

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Partie 3: Condensateur de couplage à courant alternatif ou à courant continu
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INTERNATIONAL ELECTROTECHNICAL COMMISSION

COUPLING CAPACITORS AND CAPACITOR DIVIDERS –

**Part 3: AC or DC coupling capacitor
for harmonic-filters applications**

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 60358-3 has been prepared by IEC technical committee 33: Power capacitors and their applications.

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

CDV	Report on voting
33/510/CDV	33/526/RVC

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 in the IEC 60358 series, published under the general title *Coupling capacitors and capacitor dividers*, can be found on the IEC website.

This standard is Part 3 of IEC 60358, published under the general title Coupling capacitor and capacitor dividers.

This International Standard is to be used in conjunction with the latest edition of IEC 60358-1:2012 and its amendments. It was established on the basis of the first edition (2012) of that standard.

This Part 3 supplements or modifies the corresponding clauses in IEC 60358-1:2012.

When a particular subclause of Part 1 is not mentioned in this Part 3, that subclause applies as far as is reasonable. When this standard states “addition”, “modification” or “replacement”, the relevant text in Part 1 is to be adapted accordingly.

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- as the notes are integrated into the clauses, their numbering starts from 1 as usual.

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- withdrawn,
- replaced by a revised edition, or
- amended.

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INTRODUCTION

This series consists of the following parts:

IEC 60358-1:2012, *Coupling capacitor and capacitor dividers – Part 1: General rules*

IEC 60358-2:2013, *Coupling capacitor and capacitor dividers – Part 2: AC or DC single-phase coupling capacitor connected between line and ground for power line carrier-frequency (PLC) application*

IEC 60358-3:2013¹, *Coupling capacitor and capacitor dividers – Part 3: AC or DC coupling capacitor for harmonic-filters applications*

IEC 60358-4: –², *Coupling capacitor and capacitor dividers – Part 4: AC or DC single-phase capacitor-divider and RC-divider connected between line and ground (except for CVTs which belong to IEC 61869 series)*

¹ To be published.

² Under consideration.

COUPLING CAPACITORS AND CAPACITOR DIVIDERS –

Part 3: AC or DC coupling capacitor for harmonic-filters applications

1 Scope

Clause 1 of IEC 60358-1:2012 is replaced by the following:

This part of IEC 60358 applies to AC or DC single-phase coupling capacitor, with rated voltage higher than 1 000 V, connected line to ground with the low voltage terminal either permanently earthed or connected to a tuning device for harmonic-filters applications.

NOTE Diagrams of coupling capacitors to which this standard applies are given in Figures AA.1 and AA.2.

2 Normative references

Clause 2 of IEC 60358-1:2012 is replaced by the following:

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

IEC 60060-1:2012, *High-voltage test techniques – Part 1: General definitions and test requirements*

IEC 60060-2, *High-voltage test techniques – Part 2: Measuring systems*

IEC 60358-1:2012, *Coupling capacitors and capacitor dividers. – Part 1: General rules*

IEC 60358-2, *Coupling capacitors and capacitor dividers. – Part 2: AC or DC single-phase coupling capacitor connected between line and ground for power line carrier-frequency (PLC) application*

IEC 60481, *Coupling devices for power line carrier systems*

IEC 61869-5, *Instrument transformers – Part 5: Additional requirements for capacitive voltage transformers*

3 Terms and definitions

Clause 3 of IEC 60358-1:2012 is applicable with the following additions:

For the purposes of this document, the terms and definitions given in IEC 60358-1:2012, as well as the following, apply.

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