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EUROPÄISCHE NORM

EN 60358-2

December 2013

ICS 29.120.99; 29.240.99; 31.060.70

Supersedes HD 597 S1:1992 (partially)

English version

**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 60358-2:2013)**

Condensateurs de couplage et diviseurs
capacitifs -
Partie 2: Condensateur de couplage
monophasé à courant alternatif ou à courant
continu connecté entre la ligne et la terre
pour application aux liaisons à courant
porteur sur lignes d'énergie (CPL)
(CEI 60358-2:2013)

Kopplungskondensatoren und kapazitive
Teiler -
Teil 2: Einphasen-Kopplungskondensatoren
für Wechsel- oder Gleichstrom, die für
Trägerfrequenzübertragungen auf
Hochspannungsleitungen (TFH-
Übertragung) zwischen Außenleiter und
Erde geschaltet sind
(IEC 60358-2:2013)

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Foreword

The text of document 33/531/FDIS, future edition 1 of IEC 60358-2, prepared by IEC/TC 33, "Power capacitors and their applications" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 60358-2:2013.

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) 2014-06-16
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-09-16

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

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

This Part 2 supplements or modifies the corresponding clauses in EN 60358-1.

When a particular subclause of Part 1 is not mentioned in this Part 2, that subclause applies as far as is reasonable. Where this Part 2 states "addition" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

For additional clauses, subclauses, figures, tables or annexes, the following numbering system is used:

- subclauses, tables and figures which are additional to those in Part 1 are numbered starting from 200;
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In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60085	NOTE Harmonized as EN 60085.
IEC 60721 Series	NOTE Harmonized in EN 60721 series.
IEC 61462	NOTE Harmonized as EN 61462.
CISPR 16-1-1	NOTE Harmonized as EN 55016-1-1.

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.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60060-1		High-voltage test techniques - Part 1: General definitions and test requirements	EN 60060-1	
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 60481		Coupling devices for power line carrier systems	-	-
IEC 61869-5		Instrument transformers - Part 5: Additional requirements for capacitor voltage transformers		



INTERNATIONAL STANDARD

NORME INTERNATIONALE



**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**

**Condensateurs de couplage et diviseurs capacitifs –
Partie 2: Condensateur de couplage monophasé à courant alternatif ou à
courant continu connecté entre la ligne et la terre pour application aux liaisons à
courant porteur sur lignes d'énergie (CPL)**



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Edition 1.0 2013-08

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**

FOREWORD

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International Standard IEC 60358-2 has been prepared by IEC technical committee 33: Power capacitors and their applications.

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

FDIS	Report on voting
33/531/FDIS	33/537/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 in the IEC 60358 series, published under the general title *Coupling capacitors and capacitor dividers*, can be found on the IEC website.

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

This Part 2 supplements or modifies the corresponding clauses in IEC 60358-1.

When a particular subclause of Part 1 is not mentioned in this Part 2, that subclause applies as far as is reasonable. Where this Part 2 states “addition” or “replacement”, the relevant text in Part 1 is to be adapted accordingly.

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INTRODUCTION

This series consists of the following parts:

- | | |
|----------------------------|--|
| IEC 60358-1, | <i>Coupling capacitors and capacitor dividers – Part 1: General rules</i> |
| IEC 60358-2, | <i>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</i> |
| IEC 60358-3 ¹ , | <i>Coupling capacitors and capacitor dividers – Part 3: AC or DC single-phase coupling capacitor connected between line and ground for harmonic-filters applications</i> |
| IEC 60358-4 ² , | <i>Coupling capacitors and capacitor dividers – Part 4: AC or DC single-phase capacitor-divider and RC-divider connected between line and ground (except for CVT's which belong to IEC 61869 series)</i> |

¹ Under consideration.

² Under consideration.

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

1 Scope

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

This part of the IEC 60358 series applies to AC or DC single-phase coupling capacitors, with rated voltage > 1 000 V, connected between line and ground with a low voltage terminal either permanently earthed or connected to a device for power line carrier-frequency (PLC) applications at frequencies from 30 kHz to 500 kHz or similar applications (DC or AC) at power frequencies from 15 Hz to 60 Hz.

The transmission requirements for coupling devices for power line carrier (PLC) systems are defined in IEC 60481.

NOTE Diagrams of coupling capacitors to which this standard applies are given in Figure A.1.

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

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

koniec náhľadu – text ďalej pokračuje v platenej verzii STN