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## Kopplingsapparater för högst 1000 V – Produktdata och produktegenskaper för informationsutbyte

*Low-voltage switchgear and controlgear –  
Product data and properties for information exchange*

Som svensk standard gäller europastandarden EN 62683:2013. Den svenska standarden innehåller den officiella engelska språkversionen av EN 62683:2013.

### Nationellt förord

Europastandarden EN 62683:2013

består av:

- **europastandardens ikraftsättningsdokument**, utarbetat inom CENELEC
- **IEC 62683, First edition, 2013 - Low-voltage switchgear and controlgear - Product data and properties for information exchange**

utarbetad inom International Electrotechnical Commission, IEC.

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**Low-voltage switchgear and controlgear -  
Product data and properties for information exchange  
(IEC 62683:2013)**

Appareillage à basse tension -  
Données et propriétés de produits pour  
l'échange d'informations  
(CEI 62683:2013)

Niederspannungsschaltgeräte -  
Produktdaten und -eigenschaften für den  
Informationsaustausch  
(IEC 62683:2013)

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# CENELEC

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

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## Foreword

The text of document 17B/1802/FDIS, future edition 1 of IEC 62683, prepared by SC 17B, "Low-voltage switchgear and controlgear", of IEC TC 17, "Switchgear and controlgear" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62683:2013.

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) 2014-01-15
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2016-04-15

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC [and/or CEN] shall not be held responsible for identifying any or all such patent rights.

## Endorsement notice

The text of the International Standard IEC 62683:2013 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:

IEC 60715	NOTE	Harmonised as EN 60715.
IEC 60947-3	NOTE	Harmonised as EN 60947-3.
IEC 60947-4-2	NOTE	Harmonised as EN 60947-4-2.
IEC 60947-5-1:2003	NOTE	Harmonised as EN 60947-5-1:2004 (not modified).
IEC 60947-5-2:2007	NOTE	Harmonised as EN 60947-5-2:2007 (not modified).
IEC 60947-5-5:1997 + A1:2005	NOTE	Harmonised as EN 60947-5-5:1997 + A1:2005 (not modified).
IEC 60947-6-1:2005	NOTE	Harmonised as EN 60947-6-1:2005 (not modified).
IEC 60947-6-2	NOTE	Harmonised as EN 60947-6-2.
IEC 60947-7-2:2009	NOTE	Harmonised as EN 60947-7-2:2009 (not modified).
IEC 60947-7-3:2009	NOTE	Harmonised as EN 60947-7-3:2009 (not modified).
IEC 60947-8	NOTE	Harmonised as EN 60947-8.
IEC 61095	NOTE	Harmonised as EN 61095.
IEC 61987-10	NOTE	Harmonised as EN 61987-10.
ISO 13850:2006	NOTE	Harmonised as EN ISO 13850:2008 (not modified).
ISO 14025	NOTE	Harmonised as EN ISO 14025.

**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 60947-1	2007	Low-voltage switchgear and controlgear - Part 1: General rules	EN 60947-1	2007
IEC 61360-1	-	Standard data elements types with associated classification scheme for electric items - Part 1: Definitions - Principles and methods	EN 61360-1	-

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## INTRODUCTION

Mainly large customers and wholesalers are requesting standardized product descriptions and product properties. However, all stakeholders will benefit from this standardised presentation and data exchange.

Multiple associations or groups of actors launched different initiatives to try to respond to this demand but, due to the lack of standardisation of classes and properties, the situation is not satisfactory neither for customers nor for manufacturers.

In order to keep the lead of product description, IEC proposes a new consistent solution within its product standards.

The purpose of this International Standard is to:

- define device classes and properties for low-voltage switchgear and controlgear in a dedicated standard,
- provide a basis for introduction of the low-voltage switchgear and controlgear classes and properties into the [IEC 61360 database](http://std.iec.ch/iec61360) maintained by IEC/SC3D (see <http://std.iec.ch/iec61360>).

This standard is not intended to establish a hierarchy of product classes called classification.

The intended benefits of this standard are to:

- reduce the costs, time and efforts of mapping data for each customer request;
- optimize the workflow of B2B exchanges;
- minimize duplication of articles in customer inventories and in databases;
- minimize losses and misinterpretation of data during exchanges;
- facilitate the selection of a product, especially regarding reliability and safety;
- give access to product data everywhere regardless of country, language and culture;
- provide product data related to environmental aspects such as material declaration;
- contribute to the fast growth of the e-business by simplifying the development of
  - e-Catalogue allowing the differentiation of products performances, certificates, etc;
  - e-Commerce: use of electronic networks to exchange information, products, services and payments for commercial and communication purposes between individuals (consumers) and businesses, between businesses themselves.

The output of this standard consists of:

- reference dictionary of low-voltage switchgear and controlgear using existing terms from IEC standards. However, terminology used in e-business may be relevant for the purpose of naming classes in this standard to get a high level of acceptance;
- properties for e-commerce purposes, conformity of properties with product standards being the main goal of this standard.

NOTE The classes "under consideration" are for information only and are intended to be completed during the next maintenance cycle.

For this project, the introduction of low-voltage switchgear and controlgear within the IEC 61360 database needs to address the following technical aspect:

- IEC 61360 requires mandatory attributes. The complete set of mandatory attributes with additional relevant attributes for low-voltage switchgear and controlgear will be available within the IEC 61360 database. Within the present document, only the most useful attributes will be presented;
- the switchgear and controlgear data model is implemented in an appropriate domain of the IEC Component Data Dictionary (CDD), IEC 61360, by creating dictionaries of blocks, classes and properties. A device class is therefore created using reference links to these dictionaries.

# LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR – PRODUCT DATA AND PROPERTIES FOR INFORMATION EXCHANGE

## 1 Scope

This International Standard is used to facilitate the exchange in electronic format of data describing low-voltage switchgear and controlgear.

This standard provides clear and unambiguous definitions of a limited number of properties and classes which are mainly used for presentation, selection and identification of products particularly in electronic catalogues.

Each property has an unambiguously defined meaning and naming, and where relevant, a defined value list, a defined format and a defined unit.

The intention is to produce a reference dictionary which allows a general description of low-voltage switchgear and controlgear classes based on the defined properties. The intention is not to cover manufacturer specific features.

## 2 Normative references

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 60947-1:2007, *Low-voltage switchgear and controlgear – Part 1: General rules*

IEC 61360-1, *Standard data element types with associated classification scheme for electric items – Part 1: Definitions – Principles and methods*