

<b>STN</b>	<b>Nízkonapäťové spínacie a riadiace zariadenia Údaje o výrobkoch a vlastnosti na výmenu informácií Časť 1: Katalógové údaje</b>	<b>STN EN 62683-1</b>  35 4113
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Low-voltage switchgear and controlgear - Product data and properties for information exchange - Part 1: Catalogue data

Táto norma obsahuje anglickú verziu európskej normy.  
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 02/18

Obsahuje: EN 62683-1:2017, IEC 62683-1:2017

Oznámením tejto normy sa od 16.08.2020 ruší  
STN EN 62683 (35 4113) z mája 2016

**126134**

Úrad pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky, 2018  
Podľa zákona č. 264/1999 Z. z. o technických požiadavkách na výrobky a o posudzovaní zhody a o zmene a doplnení niektorých zákonov v znení neskorších predpisov sa slovenská technická norma a časti slovenskej technickej normy môžu rozmnožovať alebo rozširovať len so súhlasom slovenského národného normalizačného orgánu.

EUROPEAN STANDARD

**EN 62683-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

October 2017

ICS 29.130.20

Supersedes EN 62683:2015

English Version

**Low-voltage switchgear and controlgear - Product data and properties for information exchange - Part 1: Catalogue data (IEC 62683-1:2017)**

Appareillage à basse tension - Données et propriétés de produits pour l'échange d'informations - Partie 1: Données de catalogue  
(IEC 62683-1:2017)

Niederspannungsschaltgeräte - Produktdaten und -eigenschaften für den Informationsaustausch - Teil 1: Katalogdaten  
(IEC 62683-1:2017)

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

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

**European foreword**

The text of document 121A/152a/FDIS, future edition 1 of IEC 62683-1, prepared by SC 121A "Low-voltage switchgear and controlgear" of IEC/TC 121 "Switchgear and controlgear and their assemblies for low voltage" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN 62683-1:2017.

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) 2018-05-16
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2020-08-16

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

IEC/TS 60034-20-1:2002	NOTE	Harmonized as CLC/TS 60034-20-1:2004.
IEC 60127-1	NOTE	Harmonized as EN 60127-1.
IEC 60529:1989	NOTE	Harmonized as EN 60529:1991.
IEC 60529:1989/AMD1:1999	NOTE	Harmonized as EN 60529:1991/A1:2000.
IEC 60529:1989/AMD2:2013	NOTE	Harmonized as EN 60529:1991/A2:2013.
IEC 62262:2002	NOTE	Harmonized as EN 62262:2002.
IEC 60715	NOTE	Harmonized as EN 60715.
IEC 60825-1	NOTE	Harmonized as EN 60825-1.
IEC 60947-2:2016	NOTE	Harmonized as EN 60947-2:2017.
IEC 60947-3	NOTE	Harmonized as EN 60947-3.
IEC 60947-4 (series)	NOTE	Harmonized as EN 60947-4 (series).
IEC 60947-4-1:2009	NOTE	Harmonized as EN 60947-4-1:2010.

IEC 60947-4-1:2009/AMD1:2012	NOTE	Harmonized as EN 60947-4-1:2010/A1:2012.
IEC 60947-4-2	NOTE	Harmonized as EN 60947-4-2.
IEC 60947-4-3	NOTE	Harmonized as EN 60947-4-3.
IEC 60947-5-1:2016	NOTE	Harmonized as EN 60947-5-1:2016.
IEC 60947-5-2:2007	NOTE	Harmonized as EN 60947-5-2:2007.
IEC 60947-5-2:2007/AMD1:2012	NOTE	Harmonized as EN 60947-5-2:2007/A1:2012.
IEC 60947-5-5:1997	NOTE	Harmonized as EN 60947-5-5:1997.
IEC 60947-5-5:1997/AMD1:2005	NOTE	Harmonized as EN 60947-5-5:1997/A1:2005.
IEC 60947-5-5:1997/AMD2:2016	NOTE	Harmonized as EN 60947-5-5:1997/A2:2017.
IEC 60947-6-1:2005	NOTE	Harmonized as EN 60947-6-1:2005.
IEC 60947-6-1:2005/AMD1:2013	NOTE	Harmonized as EN 60947-6-1:2005/A1:2014.
IEC 60947-6-2	NOTE	Harmonized as EN 60947-6-2.
IEC 60947-7-1:2009	NOTE	Harmonized as EN 60947-7-1:2009.
IEC 60947-7-2:2009	NOTE	Harmonized as EN 60947-7-2:2009.
IEC 60947-7-3:2009	NOTE	Harmonized as EN 60947-7-3:2009.
IEC 60947-8	NOTE	Harmonized as EN 60947-8.
IEC 60999-1:1999	NOTE	Harmonized as EN 60999-1:2000.
IEC 61058-1:2016	NOTE	Harmonized as EN 61058-1:2017.
IEC 61095	NOTE	Harmonized as EN 61095.
IEC 61140:2016	NOTE	Harmonized as EN 61140:2016.
IEC 61672-1:2013	NOTE	Harmonized as EN 61672-1:2013.
IEC 61987-10	NOTE	Harmonized as EN 61987-10.
IEC 62271-1:2007	NOTE	Harmonized as EN 62271-1:2008.
IEC 62474	NOTE	Harmonized as EN 62474.
IEC 82079-1:2012	NOTE	Harmonized as EN 82079-1:2012.
ISO 13850:2015	NOTE	Harmonized as EN ISO 13850:2015.
ISO 14025	NOTE	Harmonized as EN ISO 14025.

## Annex ZA (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 1 When an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<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
+ A1	2010		+ A1	2011
+ A2	2014		+ A2	2014
IEC 61360-1	-	Standard data element types with associated classification scheme - Part 1: Definitions - Principles and methods	EN 61360-1	-



# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



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**Low-voltage switchgear and controlgear – Product data and properties for  
information exchange –  
Part 1: Catalogue data**

**Appareillage à basse tension – Données et propriétés de produits pour  
l'échange d'informations –  
Partie 1: Données de catalogue**





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#### IEC Glossary - [std.iec.ch/glossary](http://std.iec.ch/glossary)

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# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



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**Low-voltage switchgear and controlgear – Product data and properties for information exchange –  
Part 1: Catalogue data**

**Appareillage à basse tension – Données et propriétés de produits pour l'échange d'informations –  
Partie 1: Données de catalogue**

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ICS 29.130.20

ISBN 978-2-8322-4547-7

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**LOW-VOLTAGE SWITCHGEAR AND CONTROLGEAR –  
PRODUCT DATA AND PROPERTIES FOR INFORMATION EXCHANGE –****Part 1: Catalogue data**

## FOREWORD

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International Standard IEC 62683-1 has been prepared by subcommittee 121A: Low-voltage switchgear and controlgear, of IEC technical committee 121: Switchgear and controlgear and their assemblies for low voltage.

This first edition cancels and replaces the second edition of IEC 62683 published in 2015. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the second edition of IEC 62683:

- a) new device class descriptions;
- b) new associated properties;
- c) slight modifications of some properties.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
121A/152/FDIS	121A/156/RVD

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

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

A list of all parts in the IEC 62683 series, published under the general title *Low-voltage switchgear and controlgear – product data and properties for information exchange*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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

**IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.**

## INTRODUCTION

Mainly large customers and wholesalers are requesting standardized product descriptions and product properties to product manufacturers. However, all stakeholders will benefit from this standardized 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 standardization 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 document 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 maintained by IEC SC3D (see <http://std.iec.ch/iec61360>).

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

The intended benefits of this document 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 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, and between businesses themselves.

The output of this document 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 document to get a high level of acceptance;
- properties for e-commerce purposes, conformity of properties with product standards being the main goal of this document.

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 aspects:

- 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. At the development stage, the CDD 62683 database is available at the following address:

<https://cdd.iec.ch/cdd/iec62683/iec62683.nsf>. 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.



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

## Part 1: Catalogue data

### 1 Scope

This document establishes the reference dictionary of the general description of low-voltage switchgear and controlgear classes based on defined properties.

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

This document 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 not to cover manufacturer-specific features.

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

IEC 60947-1:2007, *Low-voltage switchgear and controlgear – Part 1: General rules*  
IEC 60947-1:2007/AMD1:2010  
IEC 60947-1:2007/AMD2:2014

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

**koniec náhľadu – text ďalej pokračuje v platenej verzii STN**