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

EESTI STANDARDIKESKUS
ESTONIAN CENTRE FOR STANDARDISATION

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 62683-1:2017 sisaldab Euroopa standardi EN 62683-1:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 62683-1:2017 consists of the English text of the European standard EN 62683-1:2017.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 06.10.2017.	Date of Availability of the European standard is 06.10.2017.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 29.130.20

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 62683-1

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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)

This European Standard was approved by CENELEC on 2017-08-16. 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 CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

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

Ref. No. EN 62683-1:2017 E

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

This document supersedes EN 62683:2015.

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

Endorsement notice

The text of the International Standard IEC 62683-1:2017 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/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.

Publication	Year	Title	EN/HD	Year
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	-

CONTENTS

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.