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Household and similar electrical appliances - Product information properties - Part 1: Fundamentals

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. 01/23

Obsahuje: EN IEC 63237-1:2022, IEC 63237-1:2022

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EUROPEAN STANDARD

**EN IEC 63237-1**

NORME EUROPÉENNE

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December 2022

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English Version

## Household and similar electrical appliances - Product information properties - Part 1: Fundamentals (IEC 63237-1:2022)

Appareils électrodomestiques et analogues - Propriétés des informations produit - Partie 1: Principes essentiels  
(IEC 63237-1:2022)

Elektrische Geräte für den Hausgebrauch und ähnliche Zwecke - Produktinformationseigenschaften - Teil 1: Grundlagen  
(IEC 63237-1:2022)

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Comité Européen de Normalisation Electrotechnique  
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**EN IEC 63237-1:2022 (E)****European foreword**

The text of document 59/799/FDIS, future edition 1 of IEC 63237-1, prepared by IEC/TC 59 "Performance of household and similar electrical appliances" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 63237-1:2022.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2023-08-28 level by publication of an identical national standard or by endorsement
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IEC 60456 NOTE Harmonized as EN 60456

ISO 9000:2015 NOTE Harmonized as EN ISO 9000:2015 (not modified)

## Annex ZA (normative)

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NOTE 1 Where 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 61360-1	2017	Standard data element types with associated classification scheme - Part 1: Definitions - Principles and methods	EN 61360-1	2017
IEC 61360-2	-	Standard data element types with associated classification scheme for electric components - Part 2: EXPRESS dictionary schema	EN 61360-2	-
IEC 61360-4 <sup>1</sup>	-	Standard data element types with associated classification scheme for electric components - Part 4: IEC reference collection of standard data element types and component classes	EN 61360-4 <sup>1</sup>	-
IEC 61360-4 DB	-	Common Data Dictionary, CDD	-	-

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<sup>1</sup> Withdrawn.





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Edition 1.0 2022-10

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Household and similar electrical appliances – Product information properties –  
Part 1: Fundamentals**

**Appareils électrodomestiques et analogues – Propriétés des informations  
produit –  
Partie 1: Principes essentiels**





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IEC 63237-1

Edition 1.0 2022-10

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE



**Household and similar electrical appliances – Product information properties –  
Part 1: Fundamentals**

**Appareils électrodomestiques et analogues – Propriétés des informations  
produit –  
Partie 1: Principes essentiels**

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

**HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES –  
PRODUCT INFORMATION PROPERTIES –****Part 1: Fundamentals****FOREWORD**

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IEC 63237-1 has been prepared by IEC technical committee 59: Performance of household and similar electrical appliances. It is an International Standard.

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

Draft	Report on voting
59/799/FDIS	59/801/RVD

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this International Standard is English.

A list of all parts in the IEC 63237 series, published under the general title *Household and similar electrical appliances – Product information properties*, can be found on the IEC website.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at [www.iec.ch/members\\_experts/refdocs](http://www.iec.ch/members_experts/refdocs). The main document types developed by IEC are described in greater detail at [www.iec.ch/standardsdev/publications](http://www.iec.ch/standardsdev/publications).

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## INTRODUCTION

Due to progressing developments in the fields of digitalization, the Internet of Things (IoT) and smart manufacturing, product characterization needs to be raised to the next level. The exchange of product data between companies, business partners and, in the future, various databases at business and governmental level, can run smoothly only when the information to be exchanged has been clearly defined. To enable the automatic exchange of product information, it is vital that manufacturers, trade partners, regulators and authorities speak "one language", a harmonized language.

This document is aimed at all parties on the market who have a need to exchange product data very efficiently.

This document describes a method for standardization and a unique characterization of product specification information which will help both suppliers and partners to optimize workflows, business, and implementation of legislative measures in the industrial sector of household and similar appliances. By using a "common appliance language", an optimization of data exchange and digitalization will be achieved, conflicting situations between appliances will be minimized, and the cost of running data systems will be reduced. In addition, the use of a "common appliance language" will allow and simplify the data information exchange between appliances themselves (not necessarily from the same manufacturer) with a view to optimize the interactions and the energy consumptions. To achieve the above-mentioned targets, it is necessary to define a common set of standardized product properties, also called "product characteristics", including value lists.

**NOTE** Terms and definitions used in other standards of IEC/TC 59 can be different to some extent. It is the goal of IEC/TC 59 to harmonize these as much as possible.

This document provides a clear characterization of a set information properties. This document is to be used in conjunction with the relevant standard for the specific product. The content will be transferred to the IEC Common Data Dictionary (CDD).

The method described herein provides enough detailed information for an unambiguous electronic data exchange for the business area of electrical household and similar appliances. There is no other IEC standard providing descriptions for electronic data exchange between electric household and similar appliances, which is a limitation for electronic data exchange.

It is the aim to continuously harmonize the content of this document by taking into account present classification systems (e.g. APPLiA PI, ECLASS and ETIM).

# HOUSEHOLD AND SIMILAR ELECTRICAL APPLIANCES – PRODUCT INFORMATION PROPERTIES –

## Part 1: Fundamentals

### 1 Scope

This part of IEC 63237 provides a method for standardizing the descriptions of household electrical appliances.

The aims of this document are to:

- define a common language for customers and suppliers through the publication of classes, represented by properties and their attributes;
- enable electronic data exchange by machines (including information technology systems, see machine-to-machine communication [M2M]);
- optimize workflows between customers and suppliers, as well as in processes, such as engineering, development and purchasing within their own organizations;
- offer also a dictionary to legislators; and
- reduce transaction costs.

This document describes household electrical appliances using properties and makes the associated properties available in the IEC Common Data Dictionary (IEC CDD).

Furthermore, this document provides rules, methods and the generic data structure for product specific classification standards and on how to produce a reference dictionary based on the IEC 61360 series. This in turn creates a descriptive basis of company internal and external descriptions of household electrical appliances based on structured classes and lists of properties.

NOTE The terms "class", "properties" and "attributes" are defined in Clause 3, following the established definitions in IEC and ISO documents.

### 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 61360-1:2017, *Standard data elements types with associated classification scheme – Part 1: Definitions – Principles and methods*

IEC 61360-2, *Standard data element types with associated classification scheme for electric components – Part 2: EXPRESS dictionary schema*

IEC 61360-4<sup>1</sup>, *Standard data element types with associated classification scheme for electric components – Part 4: IEC reference collection of standard data element types and component classes*

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<sup>1</sup> Withdrawn.

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IEC 61360-4 DB, *Common Data Dictionary, CDD*, available at: <https://cdd.iec.ch>

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