

# INTERNATIONAL STANDARD



**Home and building electronic systems (HBES) and building automation and control systems (BACS) –  
Part 1: General requirements**



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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

# HOME AND BUILDING ELECTRONIC SYSTEMS (HBES) AND BUILDING AUTOMATION AND CONTROL SYSTEMS (BACS) –

## Part 1: General requirements

### FOREWORD

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**IEC 63044-1 edition 1.1 contains the first edition (2017-01) [documents 23/734/CDV and 23/746/RVC] and its amendment 1 (2021-05) [documents 23/913/CDV and 23/962A/RVC].**

**In this Redline version, a vertical line in the margin shows where the technical content is modified by amendment 1. Additions are in green text, deletions are in strikethrough red text. A separate Final version with all changes accepted is available in this publication.**

International Standard IEC 63044-1 has been prepared by IEC technical committee 23: Electrical accessories.

A list of all parts in the IEC 63044 series, published under the general title *Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS)*, can be found on the IEC website.

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

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

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- replaced by a revised edition, or
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# HOME AND BUILDING ELECTRONIC SYSTEMS (HBES) AND BUILDING AUTOMATION AND CONTROL SYSTEMS (BACS) –

## Part 1: General requirements

### 1 Scope

This part of IEC 63044 applies to all Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) and specifies the general requirements for these systems and products.

~~This document is applicable (but not limited) to~~

- ~~— operator stations and other human-system interface devices,~~
  - ~~— devices for management functions,~~
  - ~~— control devices, automation stations and application specific controllers,~~
  - ~~— field devices and their interfaces, and~~
  - ~~— cabling and interconnection of devices~~
- ~~used within a dedicated HBES/BACS network.~~

This document provides an overview of the IEC 63044 series.

To enable integration of a wide spectrum of applications, the IEC 63044 series covers

- electrical safety,
- functional safety,
- environmental conditions,
- EMC requirements, and
- installation and cabling rules and topologies.

IEC 63044 is a series of product family standards

### 2 Normative references

There are no normative references in this document.

### 3 Terms, definitions and abbreviated terms

#### 3.1 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>