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BSI Standards Publication

Graphical symbols for diagrams - Guidance on design for standardization in IEC 60617

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National foreword

This Published Document is the UK implementation of IEC TS 63064:2018.

The UK participation in its preparation was entrusted to Technical Committee GEL/3, Documentation and graphical symbols.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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GRAPHICAL SYMBOLS FOR DIAGRAMS – GUIDANCE ON DESIGN FOR STANDARDIZATION IN IEC 60617

FOREWORD

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Technical Specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC TS 63064, which is a Technical Specification, has been prepared by IEC technical committee 3: Information structures and elements, identification and marking principles, documentation and graphical symbols.

The text of this Technical Specification is based on the following documents:

Draft TS	Report on voting
3/1309/DTS	3/1329/RVDTS

Full information on the voting for the approval of this Technical Specification 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.

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- withdrawn,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.

A bilingual version of this publication may be issued at a later date.

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GRAPHICAL SYMBOLS FOR DIAGRAMS – GUIDANCE ON DESIGN FOR STANDARDIZATION IN IEC 60617

1 Scope

This document gives guidance and basic principles on how to design graphical symbols for diagrams for standardization and inclusion in IEC 60617.

This document does not specify how to apply such graphical symbols in the diagrams.

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 60027 (all parts), *Letter symbols to be used in electrical technology*

IEC 60617, *Graphical symbols for diagrams* (available at http://std.iec.ch/iec60617)

IEC 62744:2014, *Representation of states of objects by graphical symbols*

IEC 80000 (all parts), *Quantities and units*

IEC 81714-2:2006 *Design of graphical symbols for use in the technical documentation of products – Part 2: Specification for graphical symbols in a computer-sensible form including graphical symbols for a reference library, and requirements for their interchange*

ISO 128-20:1996, *Technical drawings – General principles of presentation – Part 20: Basic conventions for lines*

ISO 14617 (all parts), *Graphical symbols for diagrams*

ISO 80000 (all parts), *Quantities and units*

ISO 81714-1:2010, *Design of graphical symbols for use in the technical documentation of products – Part 1: Basic rules*

Drawing grid template, available at http://www.iec.ch/standardsdev/resources/draftingpublications/writing_formatting/IEC_template/iec_graphical_symbols_for_diagrams.htm > *The graphical symbols for diagrams template*

3 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