

CONSOLIDATED VERSION

VERSION CONSOLIDÉE



HORIZONTAL STANDARD
NORME HORIZONTALE

Graphical symbols for use on equipment – Guidelines for the inclusion of graphical symbols in IEC publications

Symboles graphiques utilisables sur le matériel – Lignes directrices pour l'introduction de symboles graphiques dans les publications de la CEI



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**GRAPHICAL SYMBOLS FOR USE ON EQUIPMENT –
GUIDELINES FOR THE INCLUSION OF GRAPHICAL
SYMBOLS IN IEC PUBLICATIONS**

FOREWORD

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This Consolidated version of IEC 62648 bears the edition number 1.1. It consists of the first edition (2012-06) [documents 3C/1778/FDIS and 3C/1793/RVD] and its amendment 1 (2015-12) [documents 3C/1959/CDV and 3C/2077/RVC]. The technical content is identical to the base edition and its amendment.

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 62648 has been prepared by subcommittee 3C: Graphical symbols for use on equipment, of IEC technical committee 3: Information structures, documentation and graphical symbols.

It has the status of a horizontal standard in accordance with IEC Guide 108.

This publication 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

- reconfirmed,
- withdrawn,
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- amended.

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INTRODUCTION

A graphical symbol is defined as a visually perceptible figure with a particular meaning used to transmit information independently of language. Graphical symbols are used on equipment for a wide range of purposes. The understanding of such symbols can be improved by consistent design. This is particularly important where families of symbols are used in one location or on similar equipment. Good design also helps to maintain the legibility of graphical symbols when they are reduced to small dimensions for application. Thus, there is a need for those involved in technical works to collaborate with experts in SC 3C responsible for developing and maintaining graphical symbols for use on equipment to be standardized in the horizontal standard IEC 60417.

This international standard is intended for committees working on graphical symbols for use on equipment to be included in their product publications. It provides them with guidelines on how to create their own graphical symbols for use on equipment as well as on how to consult SC 3C so that these symbols are also included in IEC 60417.

This international standard provides commonly agreeable procedures among SC 3C and other committees developing product publications including graphical symbols for use on equipment in accordance with IEC Guide 108.

GRAPHICAL SYMBOLS FOR USE ON EQUIPMENT – GUIDELINES FOR THE INCLUSION OF GRAPHICAL SYMBOLS IN IEC PUBLICATIONS

1 Scope

This International Standard provides guidelines to ensure that graphical symbols for use on equipment in IEC product publications are consistent with the requirements of horizontal standard IEC 60417, and ISO 7000. This document is intended to be used by any technical committees and subcommittees to develop graphical symbols for use on equipment for inclusion in their product publications.

This document is based on and develops IEC Guide 108:2006, Clause 4.

For the creation of new graphical symbols for use on equipment, IEC 80416-1 and ISO 80416-2 are used. For the application of standardized graphical symbols for use on equipment, IEC 80416-3 and ISO 80416-4 are used.

This horizontal standard is primarily intended for use by technical committees in the preparation of standards in accordance with the principles laid down in IEC Guide 108.

One of the responsibilities of a technical committee is, wherever applicable, to make use of horizontal standards in the preparation of its publications. The contents of this horizontal standard will not apply unless specifically referred to or included in the relevant publications.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 60417, *Graphical symbols for use on equipment*

IEC 80416-1:2008, *Basic principles for graphical symbols for use on equipment – Part 1: Creation of graphical symbols for registration*

IEC 80416-3:2002, *Basic principles for graphical symbols for use on equipment – Part 3: Guidelines for the application of graphical symbols*

IEC Guide 108:2006, *Guidelines for ensuring the coherency of IEC publications – Application of horizontal standards*

ISO 3864-1, *Graphical symbols – Safety colours and safety signs – Part 1: Design principles for safety signs and safety markings*

ISO 7000, *Graphical symbols for use on equipment – Index and synopsis*

ISO 7010:2011, *Graphical symbols – Safety colours and safety signs – Registered safety signs*