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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

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**Guidelines for the inclusion of graphical symbols for use on
electrical equipment in IEC publications**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents" Drafting.

The translation method used in this document is equivalent to the IEC 62648.2012 "Graphic

Symbols for Equipment Listed in the Guidance of IEC Publications.

but".

This document incorporates the amendments of IEC 62648.2012/Amd.1.2015, and the clauses involved in these amendments have been passed outside of it.

The vertical double line (||) of the side margin position is marked.

The Chinese documents that have consistent correspondence with the normatively cited international documents in this document are as follows.

---GB/T 2893.1-2013 Graphical symbols, safety colors and safety signs Part 1.Design of safety signs and safety signs

Accounting principles (ISO 3864-1.2011, MOD)

---GB/T 5465.1-2009 Graphical symbols for electrical equipment Part 1.Overview and classification (IEC 60417Database.

2007-01, MOD)

---GB/T 5465.2-2008 Graphical symbols for electrical equipment Part 2.Graphical symbols (IEC 60417DB.2007, IDT)

---GB/T 16273 (all parts) Graphical symbols for equipment [ISO 7000 (all parts)]

---GB/T 16902.2-2008 Rules for Representing Graphic Symbols for Equipment Part 2.Form and Use of Arrows (ISO 80416-

2.2001, MOD)

---GB/T 23371.1-2013 Basic Rules for Graphical Symbols for Electrical Equipment Part 1.Generation of Graphical Symbols for Registration

(IEC 80416-1.2008, IDT)

---GB/T 23371.3-2009 Basic Rules for Graphical Symbols for Electronic Equipment Part 3.Application Guidelines (IEC 80416-3.

2002, IDT)

---GB/T 31523.1-2015 Safety Information Identification System Part 1.Marking (ISO 7010.2011, MOD)

Introduction

Graphic symbol is a visually perceptible figure with specific meaning that has nothing to do with language, which is used to express certain information. For electrical equipment

Graphic symbols have a wide range of uses. For a series of symbols used in the same

place or on similar equipment, consistent design can improve the understanding of the symbols. Reality

In international applications, when the symbol size is reduced to a very small size, a good design also helps to maintain its legibility. Therefore, experts involved in technical work

It is necessary to collaborate with experts responsible for the development and maintenance of graphical symbols for electrical equipment in the horizontal standard IEC 60417.

This document is used by committees that include graphical symbols for electrical equipment in their product publications. This document provides the committee to create

The method of graphical symbols used on electrical equipment, and how to consult the method of IEC /SC3C (SAC/TC27/SC3), so that these

The symbol is also listed in IEC 60417.

This document specifies the procedures jointly approved by IEC /SC3C and other committees to develop

Product publications with graphic symbols for gas equipment.

Graphical symbols for electrical equipment

Guidelines for inclusion in IEC publications

1 Scope

This document specifies the guidelines for the inclusion of graphical symbols for electrical equipment in IEC publications to ensure that it is included in the drawings for electrical equipment in IEC publications.

The symbol conforms to the requirements of horizontal standards IEC 60417 and ISO 7000.

This document is applicable to any technical committees and sub-technical committees that intend to develop graphical symbols for electrical equipment and include them in their product publications.

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This document is based on Chapter 4 of IEC Guide108.2006.

For the creation of graphical symbols for new electrical equipment, see IEC 80416-1 and ISO 80416-2; for standardized drawings for electrical equipment

For the application of pictograms, see IEC 80416-3 and ISO 80416-4.

This horizontal standard is mainly used by technical committees when drafting standards

based on the principles specified in IEC Guide108.

One of the duties of the technical committee is to appropriately use horizontal standards when drafting publications. Unless specifically mentioned or included in relevant publications

Contains the content of the horizontal standard, otherwise the content of the horizontal standard does not apply.

2 Normative references

The content of the following documents constitutes an indispensable clause of this document through normative references in the text. Among them, dated quotations

Only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

This document.

ISO 3864-1 Graphic symbols, safety colors and safety signs. Part 1.Design principles of safety signs and safety signs

(Graphicsymbols-Safetycoloursandsafetysigns-Part 1.Designprinciplesforsafetysignsand safetymarkings)

Graphical symbols for use in ISO 7000 equipment index and summary

(Graphicsymbolsforuseonequipment-Indexand synopsis)

ISO 7010.2011 Graphical symbols, safety colors and safety signs, registered safety signs (Graphicsymbols-Safety

coloursandsafetysigns-Registeredsafetysigns)

ISO 80416-2 Basic principles for graphical symbols for equipment-Part 2.Form and use of arrows (Basic principles for

graphicsymbolsforuseonequipment-Part 2.Formanduseofarrows)

ISO 80416-4 Basic principles of graphical symbols for equipment-Part 4.Guidelines for redrawing graphical symbols for screens and displays (icons)

[Basicprinciplesforgraphicsymbolsforuseonequipment-Part 4.Guidelinesfortheadaptationof graphicsymbolsforuseonscreensanddisplays/icons)]

IEC 60417 Graphical symbols for use onequipment

IEC 80416-1.2008 Basic Rules for Graphical Symbols for Electrical Equipment Part