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

GB/T 23371.1-2013

Replacing GB/T 5465.11-2007

**Basic principles for graphical symbols for use on electrical
equipment -- Part 1: Creation of graphical symbols for
registration**

电气设备用图形符号基本规则 第1部分：注册用图形符号的生成

(English Translation)

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The wording of Annex B (informative) prototype Symbol Description

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C.2 special mark

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C.2.2 meaning extended symbol

2 Graphic symbol combination example of FIG.

5 Negative Example

8 Graphic symbols Example

Foreword

GB/T 23371 "Electrical Equipment Basic principles for graphical symbols" is divided into four parts.

--- Part 1. generation of graphical symbols for registration;

--- Part 2. Form and use of arrows;

--- Part 3. Guidelines for the application;

--- Part 4. supplementary guide device and the display screen graphical symbols are applied.

This section GB/T 23371 Part 1.

This section drafted in accordance with GB/T 1.1-2009 given rules.

This Part replaces GB/T 5465.11-2007 "electrical equipment draw principles for graphical symbols." this portion of the GB/T 5465.11-2007 compared, in addition to editorial changes outside the main technical changes are as follows.

--- Increasing the term "substantially linewidth" "equipment," "graphical symbols for registration" and "nominal size" (see 3.1,3.3,3.6 and 3.7);

--- Modify the term "graphic symbols factor" and defined (see 3.5,2007 version 3.2);

--- Deleted the term "subscript" (see the 2007 edition 3.4);

--- Modified symbol to generate the procedure to be followed (see Chapter 4, Section 9 of the 2007 edition);

--- Modify the basic pattern of the outer boundary of the provisions [see Figures 3 and

8.2d), 2007 edition of the FIG. 5 and 7.2e)];

- Modify the width of the basic requirements for use (see 7.3,2007 version 6.3);
- Modify the line of symbols predetermined minimum spacing (see 7.4,2007 version 6.4);
- Increased by a single slash indicates a negative provisions (see 7.9.1);
- Modify the contents of the circle with a slash indicates a negative (see 7.9.4);
- Removed prototype symbol visual requirements [see the edition of 2007 7.2d)];
- Added graphic symbols title, description, and comment requirements (see Appendix A);
- Adds detailed provisions on the wording of the prototype Symbol Description (see Appendix B);
- Increased the special marking requirements (see C.2).

This section uses the translation method is equivalent to using IEC 80416-1:2008 "device with the basic rules of graphical symbols - Part 1. Graphical Register Symbol generation. " Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB/T 7291 Graphical symbols based on the technical guidelines in consumer demand (ISO/IEC Guide74.2004, MOD) this information structure in part by the National Electrical documentation and graphical symbols Standardization Technical Committee (SAC/TC27) and focal points.

This section drafted by. China Communications Standards Association, Telecommunications Research Institute of the Ministry of Industry and Information Technology, the machine Productivity Promotion Center, Chinese standard Quasi-based research institute.

Introduction

GB/T 23371 "Electrical Equipment Basic principles for graphical symbols" and GB/T 5465 "Graphical symbols for electrical equipment" constitute support Graphical symbols for electrical equipment with a series of national standards.

Graphic symbols visual perception a language-independent graphics have a specific meaning for the expression of certain information. FIG electrical equipment Symbol with a wide range of uses. For the series of symbols of the same place or similar device, the same design can improve the understanding of symbols.

Practical application, when reduced to a very small symbol size, good design also helps to keep their legibility. Therefore, it is necessary to form an electrical set the principle of alternate standardized graphical symbols, in order to maintain consistency and ensure symbol symbols visual clarity, and improve recognizable symbols Do sex.

Electrical Equipment Basic principles for graphical symbols Part 1. the generation of graphical symbols for registration

1 Scope

This section GB/T 23371 specifies the generation graphical symbols for registration of basic rules and guidelines, as well as the drafting of graphic symbols title, said Clear rules and comments.

This section applies to the following uses graphic symbols.

- Identification device or its components (such as the controller or monitor);
- Indicates the functional status or function (such as on, off, alarm);
- Flag connection (such as terminals, connectors);
- Provide packaging information (such as the identification of packaging, handling instructions);
- Providing device operating instructions (such as use restrictions).

This section does not apply to the following uses graphic symbols.

- Security mark;
- Drawings and diagrams;
- Technical documentation of products;
- Public Information.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 5465 Graphical symbols for electrical equipment (IEC 60417, IDT) GB/T 16902.2-2008 Graphical symbols Rule equipment - Part 2. Form and use of arrows (ISO 80416-2.

2001, IDT)

GB/T 20002.2 standard drafting specific content - Part 2. the needs of the elderly and disabled (GB/T 20002.2-2008, ISO/IEC Guide71.2001, IDT) ISO/IEC Guide74.2004 Graphical symbols based on the technical guidelines in consumer demand (Graphicalsymbols-Technical guidelinesfortheconsiderationofconsumers'needs) ISO 3864-1 Graphical symbols - Safety colors and safety signs - Part 1. workplaces and public areas in the design of safety signs Principles (Graphicalsymbols-Safetycoloursandsafety signs-Part