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

GB/T 16895.1-2008

Replacing GB 16895.1-1997

**Low-voltage electrical installations -- Part 1: Fundamental
principles, assessment of general characteristics, definitions**

低压电气装置 第1部分: 基本原则、一般特性评估和定义

(English Translation)

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Foreword

By "low-voltage electrical installations" series of standards consists of the following general title five sections.

Part 1. Fundamental principles, assessment of general characteristics and definitions;

Part 4. Protection for safety;

Part 5. Selection and erection of electrical equipment;

Part 6. Test;

Part 7. requirements for special installations or locations.

This part is the "low-voltage electrical installations," Part 1.

This section identical with IEC 60364-1:2005 (5th edition) "low-voltage electrical installations - Part 1. Fundamental principles, assessment of general characteristics and definition "(in English).

This part of the reg number and IEC 60364-1:2005 exactly. Given the IEC 60364-1:2005 Appendix C (informative Annex Record) IEC 2001 is the fourth edition and structure comparison 5th edition 2005, regardless of the standard 60364-1 and change, so in mining

be deleted when used.

This Part replaces GB 16895.1-1997 "Electrical installations of buildings Part 1. Scope, object and fundamental principles." this section compared with GB 16895.1-1997, the main changes are.

--- In order to make the "scope" is more complete, the new external lighting and similar equipment, medical facilities, or transport apparatus moving, PV Power supply system and the low-pressure turbine;

--- In the 131, the "basic principles", the improved electrical installations in a list of risk that may occur; moreover, an increase of New provisions voltage disturbances and electromagnetic interference protection measures as well as to prevent the new terms of power interruption protection;

--- In the 132, the "design" aspect, added a new clause "concerning electrical installations-Files";

--- In the 134, the "installation and inspection of electrical installations", the increase of the "periodic inspection" of the new provisions;

--- Previous 312, that is, "the type of distribution system" was renamed "conductor configuration and system ground", but also includes several new Illustration, in order to better understand the various AC and DC circuits and systems of the type currently used in the IEC and its Member States meet to type;

--- In 33.1, the "compatibility properties", add a new item on the excessive PE conductor current;

--- Adds new 36, the "continuity of supply";

--- Appendix B and GB/T 2900.71-2008 is consistent.

This section of the "standard" refers to "low-voltage electrical installations" series.

Appendix A of this section and Appendix B is an informative annex.

This part of the National Technical Committee on Electrical Building (SAC/TC205) and focal points.

This section is responsible for drafting unit. electrical machines in Design and Research Institute.

11 Scope 1)

1) coding system described in Appendix A.

This standard specifies the electrical equipment design, installation and inspection of safety rules in order to avoid the use of electrical devices in a reasonable may occur for personnel,

livestock and property risk and harm, and ensure the normal operation of electrical apparatus.

11.1

standard applies to the following electrical equipment design, installation and testing.

- a) residential buildings;
- b) commercial buildings;
- c) use of public utilities Housing;
- d) industrial buildings;
- e) agriculture and horticulture house;
- f) prefabricated buildings;
- g) RV, RV camps and similar establishments;
- h) construction sites; exhibitions, fairs and other temporary facilities, electrical installations;
- i) marina;
- j) external lighting and the like (see 11.3e);
- k) medical locations;
- l) of the vehicle-mounted device or transportable;
- m) photovoltaic power supply system;
- n) low-voltage power equipment.

Note: The "House" contains ground, and includes all the facilities and buildings.

11.2

criteria include.

- a) The nominal voltage of 1000V AC or DC 1500V and below and below the power supply circuit;

The preferred frequency of the alternating current is considered standard 50Hz, 60Hz and 400Hz. But does not rule out as a special purpose Use other frequencies.

- b) no more than the means for generating the AC voltage 1000V, 1000V working voltage exceeds the circuit, for example, a gas discharge lamp, Except electrostatic precipitator circuit, but the internal electrical wiring;
- c) a standard electrical appliances do not have any wiring systems and cable explicitly included;
- d) means all users outside the building;

e) for information and communications technology, signaling, control, and similar fixed wiring (except electrical internal wiring);

f) part of the conversion or extension affect electrical installations rebuilding or expanding existing electrical installations in part by Note. The provisions of this standard apply to electrical installations in general, but in some cases (for example. explosive atmospheres Electrical apparatus used), in addition to complying with this standard Provisions should be consistent with other national standards required.

11.3

standard does not apply to.

a) electric traction equipment, including rolling stock and signaling equipment;

Electrical equipment b) motor vehicles, with the exception of such equipment - Part 7 included;

GB/T 16895.1-2008/IEC 60364-1:2005