

ICS 91.140.50
CCS Q 77



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

GB/T 16895.18-2010

**Electrical installations of buildings -- Part 5-51: Selection and
erection of electrical equipment -- Common rules**
(English Translation)

Issued on: January 14, 2011

Implemented on: July 1, 2011

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine**

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Foreword

(Low-Voltage) Electrical Installations of Buildings consists of 5 parts; each part is divided into

several sub-parts.

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

--- Part 4.Protection for safety;

--- Part 5.Selection and erection of electrical equipment;

--- Part 6.Verification;

--- Part 7.Requirements for special installations or locations.

This Part is Part 5.Part 5-51 in selection and erection of electrical equipment.

This Part was drafted as per the rules specified in GB/T 1.1-2009 Directives for Standardization

- Part 1.Structure and Drafting of Standards and GB/T 20000.2-2009 Guidelines for Standardization - Part 2.Adoption of International Standards.

This Part replaced GB/T 16895.18-2002 Electrical Installations of Buildings - Part 5.Selection

and Erection of Electrical Equipment - Chapter 51.Common Rules.

Compared with GB/T 16895.18-2002, the major technical changes of this Part are as follows.

--- Add more detailed content on the characteristics of requirements for selection and erection of electrical under conditions such as AD1~AD8 and AE4~AE6 in Table 51A (see Table 51A of this Edition);

--- Add 516 Measures related to protective conductor current (see 516 of this Edition);

--- Delete the original Annex A, and its content is listed in the newly added bibliography (see Bibliography of this Edition);

--- Add Annex A to Annex E (see Annex A to Annex E of this Edition).

This Part equivalently adopted IEC 60364-5-51 (5th Edition) Electrical Installations of Buildings - Part 5-51.Selection and Erection of Electrical Equipment - Common Rules (English Version). Compared with IEC 60364-5-51.2005 (5th Edition), this Part has the same

clause and article numbers and the same technical contents, but the following editorial changes

have been made.

--- Use the decimal point symbol "." to replace "," that is used as decimal point symbol;

--- Delete the "Foreword" of the IEC standard;

Electrical Installations of Buildings - Part 5-51.Selection
and Erection of Electrical Equipment - Common Rules

510.1 Scope

This Part deals with the selection of equipment and its erection.

This Part provides common rules for compliance with measures of protection for safety, requirements for proper functioning for intended use of the installation, and requirements appropriate to the external influences foreseen.

510.2 Normative References

The following referenced documents are indispensable for the application 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.

GB/T 2423.17-2008 Environmental testing for electric and electronic products - Part 2.

Test method - Test Ka. Salt mist (IEC 60068-2-11.1981)

GB 3836 (all parts) Electrical apparatus for explosive atmosphere [IEC 60079 (all parts)]

GB/T 4025-2003 Basic and safety principles for man-machine interface, marking and identification - Coding principles for indication - Devices and actuators (IEC 60073.1996)

GB/T 4205-2003 Man-machine interface (MM) - Actuating principles (IEC 60447.1993)

GB 4208-2008 Degrees of Protection Provided by Enclosure (IP Code) (IEC 60529.1989)

GB/T 4728 (all parts) Graphical symbols for electrical diagrams (IEC 60617)

GB/T 4798.4-2007 Environmental conditions existing in the application of electric and electronic products - Part 4. Stationary use at non-weather-protected locations (IEC 60721-3-4.1995, MOD)

GB/T 5094.1-2002 Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations - Part 1. Basic rules (IEC 61346-1.1996, IDT)

GB/T 6988 (all parts) Preparation of documents used in electrotechnology (IEC 61082)

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