

ICS 91.140.50
CCS Q 77



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

GB 16895.8-2010

Replacing GB 16895.8-2000

**Low-voltage electrical installations -- Part 7-706: Requirements
for special installations or locations -- Conducting locations
with restricted movement**

低压电气装置 第7-706部分：特殊装置或场所的要求 活动受限制的可导电场所
(English Translation)

Issued on: November 10, 2010

Implemented on: September 1, 2011

Issued by: Standardization Administration of China

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Introduction

Foreword

All technical content GB (GB/T) 16895 This section is mandatory.

GB (GB/T) 16895 "Buildings (low voltage) electrical installations" series of national standard is divided into five parts, each part is divided into a plurality of sub section.

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

--- Part 4. Safety;

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

--- Part 6. Inspection;

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

This part of GB (GB/T) of Section 716 895. Requirements for special installations or locations in the Section 706.

This section based on GB/T 1.1-2009 "Standardization Guide Part 1. Standard structure and drafting" and GB/T 20000.2-2009 "Standardization Guide Part 2. the use of international standards," the drafting of the rules.

This Part replaces GB 16895.8-2000 "Electrical installations of buildings Part 7. Requirements for special installations or locations - Section 706.

Restrictive conducting properties. " Compared with GB 16895.8-2000, the main technical changes are as follows.

--- For all portable devices, but not limited to measuring equipment, electrical and separated only SELV are permissible [see 706.410.3.1.6 of a)].

--- Allow the use of PELV power to the fixture, and, if the use RCD provides additional protection for fixed power supply device, II type of equipment allows the use of insulated or equivalent device [see 706.410.3.1.6 of c)].

This section identical with IEC 60364-7-706:2005 (2nd edition) "on low-voltage electrical installations Part 7-706. special installations or locations the requirement of restricted activity conducting locations "(in English). This part of IEC 60364-7-703. compared to 2004 (2nd edition), reg Exactly the same number, the same technical content, but made the

following editorial changes.

--- Use the decimal symbol instead of decimal symbol " , . " , " ;

--- Deletion of the IEC standard "foreword";

--- Other countries have national application of the standard injection has nothing to do with our country in this section, shall be adopted in deleted.

This part of the National Standardization Technical Committee of electrical building equipment (SAC/TC205) and focal points.

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

Introduction

GB (GB/T) of this section 16895 requires that supplement, modify or replace the GB (GB/T) 16895 General requirements for the rest of the Some of the content.

This section follows the clause numbering GB (GB/T) 16895 mode and make the appropriate references. Connected to the dedicated number after Section 706 Surface is GB (GB/T) 16895 or the terms of the corresponding portion of the number.

Of this chapter or section does not cite, meaning GB (GB/T) 16895 corresponding general requirements still apply.

Low-voltage electrical installations Requirements for special installations or locations.
Section 7-706 Activities Restricted conducting locations

706.1 Scope

GB (GB/T) the special requirements of this section 16895 applies to fixed human activity is restricted to locations in conducting locations Equipment, and supply suitable for use in place of such a portable device.

Activities Restricted conducting locations, mainly in part by a metal or other conductive material surrounded constituted, in this place in person Probably through some of its large area of the body with a metal or other conductive material may be enclosed in contact, and to prevent the possibility of such contact is tiny.

The special requirements of this section do not apply to places humans can work freely and unfettered access.

Note: The installation and use on arc welding equipment, see IEC 62081TS.

Applications 706.410.3 electric shock protection measures Add the following requirements.

706.410.3.1.6 activities restricted conductive properties, the following precautions apply to the following electrical equipment power supply circuit.

a) to the hand-held power tools and portable devices.

--- SELV (411.1); or

--- Isolation transformer secondary winding is connected only one device electrically separated (413.5).

Note: There may be several isolation transformer secondary winding.

b) to hand-held lamp power.

--- SELV (411.1).

NOTE: Allow up transformer fluorescent fixtures within the electrical system partition SELV winding power transformer.

c) to supply fixed equipment.

--- Having a supplementary equipotential bonding (413.1.6) Auto power off (413.1), the potential of these links should be fixed equipment the exposed conductive parts and external conductive part of the property is connected; or

--- SELV (411.1); or

--- PELV (411.1), then all exposed conductive parts and all outside activities in restricted conductive sites Sector should be carried out between the conductive part equipotential bonding and grounding system should PELV; or

--- Isolation transformer secondary winding is connected only electrically isolated from one device (413.5); or

--- Use II type of equipment or with its equivalent insulated equipment (413.2), the power supply circuit provided with a rated residual operating power Flow does not exceed the residual current protective devices 30mA as additional protection (412.5).

NOTE: Allow up transformer fluorescent fixtures within the electrical system partition SELV winding power transformer.

Contact between 706.411 and direct contact with both indirect protection Add the following requirements.

706.411.1.2 SELV and PELV power

706.411.1.2.6 SELV and PELV power supply should be set outside the restricted activities of conducting locations, unless they are Part of 706.410.3.1.6 c), recognized activities restricted conducting locations inside the fixed equipment.

706.411.1.4 ungrounded circuit (SELV) requirements 706.411.1.4.3 under 411.1.4.3 should provide basic protection (protection against direct contact), marked with the SELV circuit Said voltages.

706.411.1.5 ground loop (PELV) requirements 706.411.1.5.2 under 411.1.5.1 should provide basic protection (protection against direct contact), marked with the PELV circuit Said voltages.

Protection 706.412 pairs of direct contact Add the following requirements.

706.412.3 barrier

Do not allow the use of barrier protection (412.3).

706.412.4 outriggers disposed outside the scope of protection not allowed to use outriggers disposed outside the scope of protection (412.4).

Protection 706.413 pairs indirect contact Add the following requirements.

Using only 706.410.3.1.6 provided to power the device allows the circuit and its protection measures.

706.413.1.2.3 equipotential bonding and functional ground If some devices, such as measuring and control instruments, the need for functional ground, all the activities restricted conducting locations inside the exposed conductive parts, between conductive parts outside the functional earth, equipotential bonding should be carried out.

706.413.5 electrically separated 706.413.5.1.1 embodiment according to 413.5.1.1 separated power protection should be provided outside the activities restricted conductive sites, Unless the power supply is part of the fixtures in restricted activity may be conducting workplace.