



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

GB/T 16895.33-2021

**Low-voltage electrical installations - Part 5-56: Selection and
erection of electrical equipment - Safety services**

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Table of Contents

560.1 Scope	1
560.2 Normative references	1
560.3 Terms and Definitions	2
560.4 Classification	3
560.5 General	4
560.6 Power Supply for Safety Facilities	4
560.7 Electrical circuits of safety facilities	5
560.8 Wiring system	6
560.9 Emergency lighting applications	6
560.10 Fire protection applications/equipment	7
Appendix A (Informative) Emergency Lighting Guide	8
Appendix B (Informative) Guide for Fire Fighting Equipment	9
Appendix C (informative) List of notes for each country	10
Appendix D (informative) Fire switch	11
Appendix E (informative) Examples of installation methods of safety facilities with cable management system	12
Appendix F (Informative) Wiring System	13
F.1 Environmental test temperature rise	13
F.2 Operation duration of safety facilities	13
F.3 Expected resistance of feeder conductor	13
F.4 Electric shock protection when measures to reduce contact voltage fail	14
F.5 Conductor resistance during fire	14
F.6 High temperature effects	14
F.7 Feeder circuit	14
Appendix G (Informative) Guidelines for Suitable Locations of Power Sources for Safety Facilities	15
G.1 Recommendations for the proper location of power sources for safety facilities	15
G.2 Fire conditions	15
Reference	16

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.

GB/T 16895 "Low-Voltage Electrical Installations" is divided into 5 parts, and each part is divided into multiple sub-parts.

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

---Part 4. Security Protection;

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

---Part 6. Inspection;

---Part 7. Requirements for special devices or places.

This document is part 5-56 of GB/T 16895 "Low-Voltage Electrical Installations". Part 5 of GB/T 16895 has published the following

part.

--- Part 5-51 of electrical installations of buildings. general rules for the selection and installation of electrical equipment;

--- Part 5-52 of low-voltage electrical installations. selection of electrical equipment and installation of wiring systems;

--- Building Electrical Installations Part 5-53. Selection and Installation of Electrical Equipment Isolation, Switching and Control Equipment Section 534. Over

Voltage protection appliances;

--- Part 5-54 of low-voltage electrical installations. selection and installation of electrical equipment, grounding configuration, protective conductor;

--- Part 5-55 of low-voltage electrical installations. selection of electrical equipment and installation of other equipment;

--- Low-voltage electrical installations Part 5-56. Selection of electrical equipment and installation safety facilities.

This document replaces GB/T 16895.33-2017 "Low-voltage electrical installations Part 5-56. Selection and installation safety of electrical equipment

Facilities", compared with GB/T 16895.33-2017, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

---The normative reference documents, terms and definitions have been changed (see 560.2, 560.3, 560.2, 560.3 of the 2017 edition);

---In the electrical circuit of safety facilities, the regulations on the isolation of safety circuit

cables have been deleted (see 560.7.7 of the.2017 edition);

---In the electrical circuit of safety facilities, the requirement to maintain power supply in the event of a fire has been added (see 560.7.12), and the circuit of safety facilities should not be

RCDs or AFDDs protection requirements (see 560.7.13);

---In the "wiring system" chapter, the provision of conductor cross-sectional area (see 560.8.4), the wiring system of safety facilities and other equipment has been added

Provisions for isolation (see 560.8.5);

---In emergency lighting applications, requirements have been added to prevent any control system from negatively affecting the emergency lighting system (see 560.9.9),

Regulations for preventing the discharge of energy storage power supplies for safety facilities (see 560.9.16), regulations for neutral conductors (see 560.9.17); safety devices have been deleted

The control and bus systems of lighting installations should be independently specified (see 560.9.8 in the.2017 edition), and for the part of the power supply used in the building

Regulations for monitoring and control (see 560.9.11 in the.2017 edition);

---Added informative Appendix D fire switch;

---Informative Appendix E contains examples of installation methods for safety facilities of the cable laying management system;

---Added informative appendix F wiring system;

---Informative Appendix G Guidelines for suitable installation locations for power supplies for safety facilities have been added.

The translation method used in this document is equivalent to IEC 60364-5-56.2018

“Low-voltage electrical installations Part 5-56.Selection of electrical equipment

And install safety facilities.”

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

---GB/T 2820.12-2002 AC generator sets driven by reciprocating internal combustion engines Part 12.Emergency to safety devices

Power supply (ISO 8528-12.1997, MOD);

---GB 7000.2-2008 Luminaires Part 2-22.Special requirements emergency lighting luminaires (IEC 60598-2-22..2002,

IDT);

---GB/T 7260.1-2008 Uninterruptible power supply equipment Part 1-1.General rules for UPS used in areas where operators reach

Safety requirements (IEC 62040-1-1.2002, MOD);

---GB/T 7260.2-2009 Uninterruptible Power Supply (UPS) Part 2.Electromagnetic Compatibility (EMC) Requirements (IEC 62040-

2.2005, IDT);

---GB/T 7260.3-2003 Uninterruptible power supply equipment (UPS) Part 3.Methods and test requirements for determining performance

(IEC 62040-3.1999,MOD);

---GB/T 13033.1-2007 Mineral insulated cables and terminals with rated voltages of 750V and below Part 1.Cables

(IEC 60702-1.2002, IDT);

---GB/T 13033.2-2007 Mineral insulated cables and terminals with rated voltages of 750V and below Part 2.Terminals

(IEC 60702-2.2002, IDT);

---GB/T 16895.6-2014 Low-voltage electrical installations Part 5-52.Selection of electrical equipment and installation of wiring systems

(IEC 60364-5-52.2009, IDT);

---GB/T 18380.12-2008 The burning test of electric cables and optical cables under flame conditions Part 12.Electricity of a single insulated wire

Cable flame vertical spread test 1kW pre-mixed flame test method (IEC 60332-1-2.2004, IDT);

---GB/T 19216 (all parts) Line integrity test of cables or optical cables under flame conditions [IEC 60331 (all parts)

Points), IDT].

The following editorial changes have been made to this document.

--- The content of the informative Appendix C "Notes List of Countries" has been deleted, which has nothing to do with my country's technical conditions.

Introduction

GB/T 16895 (all parts) on the safety protection of low-voltage electrical installations,