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

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**Low-voltage electrical installations - Part 4-44: Protection for
safety - Protection against voltage disturbances and
electromagnetic disturbances**

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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.Evaluation and definition of basic principles, general characteristics;

---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 the 4-44 subpart of GB/T 16895 "Low-voltage electrical installations Part 4.Safety protection". Number 4 of GB/T 16895

The following parts have been released.

--- Part 4-41 of low-voltage electrical installations. safety protection and electric shock protection (GB/T 16895.21);

--- Part 4-42 of low-voltage electrical installations. safety protection thermal effect protection (GB/T 16895.2);

--- Part 4-43 of low-voltage electrical installations. safety protection overcurrent protection (GB/T 16895.5);

--- Part 4-44 of Low-Voltage Electrical Equipment. Safety Protection Voltage Disturbance and Electromagnetic Disturbance Protection (GB/T 16895.10).

This document replaces GB/T 16895.10-2010 "Low-Voltage Electrical Installations Part

4-44.Safety Protection against Voltage Disturbance and Electromagnetic Disturbance

Protection. Compared with GB/T 16895.10-2010, in addition to structural adjustments and editorial changes, the main technical changes of this document are as follows.

- The general rules for atmospheric transient overvoltage or operating overvoltage protection in part 443.1 have been changed (see 443.1, 443.1 in the.2010 edition);
- The lightning risk assessment method using the calculated risk length (CRL) instead of the original agreed length d (see 443.5,.2010 edition 443.3.2.2);
- Changed the separation between 444.6 circuits (see 444.6, 444.6 in the.2010 edition);
- The content of Appendix A has been changed, and SPD is used to calculate the risk level (CRL) example (see Appendix A,.2010 edition). Record A);
- Deleted Table B.1 in Appendix B (see Appendix B of the.2010 edition);
- Deleted Appendix C (see Appendix C of the.2010 edition).

The translation method used in this document is equivalent to IEC 60364-4-44.2018

“Low-voltage electrical installations Part 4-44.Safety protection voltage

Harassment and electromagnetic harassment protection.

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

- GB/T 156-2017 standard voltage (IEC 60038.2009, MOD)
- GB/T 2900.57-2008 electrotechnical terminology power generation, transmission and distribution operation (IEC 60050-604.1987, MOD)
- GB 4943.1-2011 Information Technology Equipment Safety Part 1.General Requirements (IEC 60950-1.2005, MOD)
- GB/T 16895.1-2008 Low-voltage electrical installations Part 1.Basic principles, general characteristics assessment and definitions (IEC 60364-1.2005, IDT)
- GB/T 17799.1-2017 General Standard for Electromagnetic Compatibility Immunity in residential, commercial and light industrial environments (IEC 61000-6-1.2005, MOD)
- GB/T 17799.2-2003 Electromagnetic compatibility general standard industrial environment immunity test (IEC 61000-6-2.