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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 25081-2026

Replacing GB/T 25081-2010, GB/T 25081-2010

High-voltage detecting and indicating system

高电压探测和显示装置

(English Translation)

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document partially replaces GB/T 25081-2010 "High Voltage Live Indicator Display Device (VPIS)". Compared with GB/T 25081-2010, except for...

Aside from structural adjustments and editorial changes, the main technical changes are as follows.

---The normal and special usage conditions have been changed (see Chapter 4, Chapter 2 of the 2010 edition);

---The content related to the phase recognizer has been removed (see sections 5.1.2 and 5.6 of the 2010 version);

---The requirements for voltage limiting components have been changed (see 6.5, 5.4.3 of the 2010 version);

---The protection level requirements for test points have been changed (see 6.11.1, 5.1.3 of the 2010 version);

---Added requirements for the connection cables of the High Voltage Detection and Display (VDIS) device (see 6.6, 7.12);

---Added requirements for VDIS test points (see 6.7, 7.5);

---Added requirements for VDIS connection points (see 6.8);

---Added climate requirements for VDIS (see 6.12, 7.13, 7.15, and 7.16);

---Added mechanical requirements for VDIS (see 6.13, 7.17, 7.18);

---Added requirements for VDIS insulation strength (see 6.15, 7.3);

---Added the requirement for VDIS with built-in power supply (see 6.16, 7.21);

This document is modified to adopt IEC 62271-213:2021 "High voltage switchgear and controlgear - Part 213: Voltage detection and display equipment".

Placement.

This document has undergone significant structural adjustments compared to IEC 62271-213:2021.A comparison of the structural numbering changes between the two documents is provided below.

See Appendix B for the table of contents.

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This document differs significantly from IEC 62271-213:2021.The differences are indicated in the margins of the relevant clauses.

Vertical single lines (?) are indicated. A summary of these technical differences and their reasons can be found in Appendix C.

The following editorial changes have been made to this document.

---To align with my country's standards system, the standard's name has been changed to "High Voltage Detection and Display Devices";

---Added a note regarding "test components" (see 3.17);

---Added a note regarding "Examples of Typical Integrated VDIS Architectures" (see Figure 1);

---Added a note regarding "Examples of typical split-type VDIS structures" (see Figure 2);

---The relevant content of IEC 61243-5 (see Chapter 1, 6.7.3, and Annex A of IEC 62271-213:2021) has been deleted from the informative references.

---The note regarding "Appendix B relating to certain countries" has been deleted (see 6.4.2 of IEC 62271-213:2021);

---The note regarding "requirements for test point output signals" has been deleted (see 6.7.3 of IEC 62271-213:2021);

---Duplicate content has been removed (see 6.9.2 and 7.1.2 of IEC 62271-213:2021);

---Corrected some editing errors in Appendix A;

---The section on "Notes relating to certain countries" has been removed (see Annex B of IEC 62271-213:2021);

---Informative Appendix B and Informative Appendix C have been added.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document is under the jurisdiction of the National Technical Committee on Standardization of High Voltage Switchgear (SAC/TC65).

1 Scope

This document defines the terminology for high voltage detection and display devices, and specifies normal and special operating conditions, ratings, design, and structure.

The requirements describe the test methods for the corresponding type tests and factory tests.

This document applies to high-voltage electrical equipment installed indoors and outdoors,

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