

ICS 29.280
CCS S 81



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

GB/T 25890.3-2026

Replacing GB/T 25890.3-2010

**Railway applications - Fixed installations - DC switchgear - Part
3: Indoor d. c. disconnectors, switch-disconnectors and
earthing switches**

轨道交通 地面装置 直流开关设备 第3部分：户内直流隔离开关、负荷开关和接地
开关

(English Translation)

Issued on: January 28, 2026

Implemented on: August 1, 2026

Issued by: State Administration for Market Regulation

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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 is Part 3 of GB/T 25890 "DC Switchgear for Ground Installations in Rail Transit". GB/T 25890 has been issued.

The following parts were laid out.

---Part 1: General Provisions;

---Part 2: DC Circuit Breakers;

---Part 3: Indoor DC disconnect switches, load switches and grounding switches;

---Part 4: Outdoor DC disconnect switches, load switches and grounding switches;

---Part 5: DC Switchgear Assemblies;

---Part 7-1.Application Guidelines for Dedicated Measurement, Control, and Protection Devices for DC Traction Power Supply Systems;

---Part 7-2.Dedicated Measurement, Control, and Protection Devices for DC Traction Power Supply Systems. Isolated Current Transmitters and Other Current Measurements equipment;

---Part 7-3.Dedicated Measurement, Control, and Protection Devices for DC Traction Power Supply Systems. Isolated Voltage Transmitters and Other Voltage Measurement Devices equipment.

This document replaces GB/T 25890.3-2010 "DC Switchgear for Ground Installations in Rail Transit - Part 3: Indoor DC Isolation Equipment".

"Off-grid switches, load switches and grounding switches", compared with GB/T 25890.3-2010, except for structural adjustments and editorial changes, the main technical differences are as follows.

The changes are as follows.

- a) The scope has been changed (see Chapter 1, Chapter 1 of the 2010 edition);
- b) The voltage specifications for rated short-circuit breaking and making capabilities have been changed (see 5.3.3, 2010 edition of 5.3.3);
- c) The time constant determination principle for the closing/breaking load capacity of switch types and the fault current operating frequency of Class V switches have been changed.

Definitions (see Table 1, 2010 edition);

- d) The requirement that switches conform to the production drawings has been added (see 6.1);

- e) The requirements for both buyers and sellers have been removed (see 6.14 in the 2010 edition);

- f) The requirement for mutual agreement to adjust tolerances has been removed (see 8.3.7.2 in the 2010 version);

- g) The type of switch and the time constants for closing and breaking capacity tests have been changed in the closing capability test (see 8.2.7.4, 2010 version).

8.3.7.4);

- h) General requirements for inspection rules have been added (see 9.1);

- i) The inspection items have been changed (see Table 2, Table 2 in the 2010 edition).

This document is modified to adopt IEC 61992-3:2015 "DC switchgear for ground installations on rail transit - Part 3: Indoor DC isolation".

"Leave the switch, load switch and grounding switch".

Compared with IEC 61992-3:2015, this document has undergone the following structural adjustments.

---8.2 corresponds to 8.3 of IEC 61992-3:2015;

---Chapter 9 and 9.1 "General Requirements" have been added;

---9.2 corresponds to 8.2 of IEC 61992-3:2015.

The technical differences between this document and IEC 61992-3:2015, and the reasons therefor, are as follows.

---The scope has been revised (see Chapter 1), and applicability requirements have been added to adapt to my country's national conditions;

---EN50124-1:2001 (see 5.5, 5.6) has been replaced by the normatively referenced GB/T 32350.1, and GB/T 11022-2020 has been replaced by...

The new standard replaces IEC 60694 (see 8.2.1.2), and GB/T 25890.1-2026 replaces IEC 61992-1:2006 (see Chapter 3).

Chapters 4, 5.2-5.6, 6.1, 6.2, 6.4, 6.10, 6.11, 7.2, 8.1, 8.2, and 9.2), GB/T 25890.5-2026 replaces [the previous standard].

IEC 61992-6:2006 (see 5.4, 6.6, 6.7, 6.9) was adopted to adapt to my country's technical conditions and increase operability.

---Added information on whether the product meets the requirements of the production drawings (see 6.1), clarifying the requirements;

---The notes in sections 6.2 and 6.4 have been changed to main text to clarify requirements and facilitate use;

---Content that could be agreed upon by the manufacturer and user has been removed (see IEC 61992-3:2015, 6.12, 6.18, 8.3.5, 8.3.6).

8.3.7.2 and 8.3.7.4) clearly define the requirements and facilitate use;

---Type testing requirements have been added (see Chapter 9) to adapt to my country's national conditions;

---The section "Test Items and Test Order" has been changed to "Inspection Items" (see 9.2) to better suit my country's national conditions;

---Added clauses on inspection classification and technical requirements (see Table 2) to adapt to my country's national conditions.

The following editorial changes have been made to this document.

---In section 5.3.2, GB/T 1402-2025, a reference standard, has replaced IEC 60850:2000 to better suit my country's national conditions;

---The test requirements and methods for electrical and mechanical durability in IEC 61992-3:2015 6.12 are incorporated into sections 8.2.5 and 8.2.6 to adapt to...

my country's national conditions;