

German switchgear standards



Overview

IEC 61439 switchgear has become the reference standard for low-voltage power distribution in modern German industrial and commercial buildings. SF₆ emissions have been successfully reduced thanks to a voluntary industry commitment. Alternative products to substitute SF₆ in various applications have been. This part 1 of IEC 61439 lays down the definitions and states the service conditions, construction requirements, technical characteristics and verification requirements for low-voltage switchgear and controlgear assemblies. Every German and European standard has to be approved by a series of institutions, including the "International Electrotechnical Commission (IEC)", the European committee for electrotechnical. ABB's Medium Voltage Products encompass a comprehensive range of technologies and solutions designed for the efficient distribution and management of electrical power in various applications. ABB's medium voltage products are designed to meet various international standards and are used across. The primary components in a switchgear system are the bus bars, switchgear, current and voltage transformers, power and cable connections, as well as components required for controlling/monitoring, network protection and automation.



Article Content

Jun 05, 2026

Compulsory electrical tests according to DIN VDE.

Structure and Application of the DIN VDE Standards. The VDE standards are part of the DIN standards (German Institute for Standardisation). The standard

Feb 21, 2026

Switchgear construction I TRIPS group

The TRIPS group stands for switchgear construction "Made in Germany" and combines decades of experience with state-of-the-art manufacturing technology.

Feb 24, 2026

German DIN VDE Electrical Standards List

Comprehensive list of German DIN VDE standards for electrical installations, cables, and equipment. Essential for electrical engineers.

Mar 31, 2026

Standard

IEC 61439-1:2020 is available as IEC 61439-1:2020 RLV which contains the International Standard and its Redline version, showing all changes of the technical content compared to the previous

Aug 08, 2025

STANDARDS/APPROVALS

Low-voltage switchgear and controlgear: Control circuit devices and switching elements, Electromechanical control circuit devices. IEC 60204-1 | DIN EN 60204-1 | VDE 0113-1

Oct 26, 2025

DIN EN IEC 61439-4 E:2022

DIN EN IEC 61439-4 E:2022-12 Draft Document - Low - voltage switchgear and controlgear assemblies - Part 4: Particular requirements for assemblies for construction sites (ACS) (IEC 121B / 151 / CDV:

Jun 04, 2026

Switchgear

Regulation (EU) 2024/573 on fluorinated greenhouse gases contains various regulations and bans on switchgear. An overview of the current and future

Aug 14, 2025

STANDARDS/APPROVALS

Low-voltage switchgear and controlgear: Switches, disconnectors, switch-disconnectors and fuse-combination-units. IEC 60947-4-1 | DIN EN 60947-4-1 | VDE 0660-102

Nov 28, 2025

DGUV Information 213-013 SF6-Switchgear and Equipment

The primary components in a switchgear system are the bus bars, switchgear, current and voltage transformers, power and cable connections, as well as components required for controlling/monitor

May 15, 2026

TransmissionCode 2007

This Transmission Code 2007 replaces the Transmission Code 2003 – Network and System rules of the German transmission system operators . The relevant current rules for the distribution

May 11, 2026

DIN EN IEC 61439-1 VDE 0660-600-1:2021-10

This part 1 of IEC 61439 lays down the definitions and states the service conditions, construction requirements, technical characteristics and verification requirements

May 07, 2026

UniGear Portfolio | ABB

UniGear is the main product line of ABB's air-insulated (AIS) indoor switchgear for primary distribution. With more than 25 years in the market, UniGear distributes medium voltage electric power safely and

Nov 06, 2025

Top 100 Switchgear Manufacturers in Germany (2026) | ensun

When exploring the switchgear industry in Germany, several key considerations come to the forefront. Firstly, compliance with stringent European Union regulations and standards is essential.

Oct 23, 2025

Switchgear standards and standardisation | IET Journals & Magazine ...

Switchgear has almost 100 years of development history. It has become a total concept of power-system capability in growth, operation, security of supply and in safety. Switchgear techniques have been

Jul 28, 2025

Understanding DIN VDE Standards: Comprehensive

Explore the comprehensive world of DIN VDE standards—technical guidelines ensuring safety, reliability, and compatibility in electrical engineering.

Apr 08, 2026

Decoding European Electrical Symbols: A Guide to

European wiring diagram symbols typically follow the International Electrotechnical Commission (IEC) standards, which provide a comprehensive set of symbols for

Sep 25, 2025

DIN EN IEC 60947-1 VDE 0660-100:2022-03

Low-voltage switchgear and controlgear Part 1: General rules (IEC 60947-1:2020); German version EN IEC 60947-1:2021 Class/Status: Standard, valid Released: 2022-03 VDE Art. No.: 0600357

Mar 14, 2026

Switchgear Manual | | ABB

Starting with fundamental physical and technical terms, the book offers a broad overview about switchgear technology at all voltage levels, power systems

Aug 06, 2025

European standards for plugs and sockets

This standard specifies safety requirements for devices that are used for power distribution in domestic or industrial areas and on construction sites. It guarantees

Apr 04, 2026

Demystifying German Electrical Schematic Symbols: A

In Germany, the use of specific symbols is regulated by standards such as DIN 40719-2. Therefore, having a comprehensive knowledge of German electrical

Aug 16, 2025

Switchgear

NewsEU Regulation on Fluorinated Greenhouse GasesRückgewinnungProject on The Recovery of SF6 from Electrical EquipmentProject on Electrical EquipmentGerman Industry's Voluntary CommitmentThe Federal Republic of Germany together with the German industry reached an agreement on global warming prevention on 9 November 2000. In this context, SF6 producers as well as manufacturers and operators of electrical equipment > 1kV made a voluntary agreement to reduce SF6emissions. This agreement was first set up and signed in 2005. During this...See more on umweltbundesamt Published: May 4, 2024VDE VERLAG

DIN EN IEC 61439-1 VDE 0660-600-1:2021-10

This part 1 of IEC 61439 lays down the definitions and states the service conditions, construction requirements, technical characteristics and verification requirements

Sep 15, 2025

IEC-61439-Schaltanlagen für Industrie

This portfolio allows German building owners to implement an end-to-end architecture—from MV rings, through transformers, down to LV IEC 61439

Oct 12, 2025

Our standards in figures

Statistics about electrotechnical standards International, European and national standardization for electrical, electronic and information technologies

May 11, 2026

· Testing of electrical equipment and machinery

For new customers, we offer practicable and proven standard procedures as a decision-making aid. Legally compliant and audit-compliant documentation is just as much a matter of course as the

Jul 25, 2025

Products

Products Product Overview (PDF) Medium voltage Low voltage Railway technology Complete solutions for energy distribution Tender texts Virtual Showroom

Aug 01, 2025

DIN EN IEC 60947-1

You can also subscribe to this document - together with other important standards in your industry. This makes your work easier and pays for itself after a short time.

Apr 25, 2026

TECHNICAL INFO MNS 3.0 Low Voltage Switchgear

Standard type MNS 3.0 low voltage switchgear has been tested and certified based on marine standards of German Lloyd's Register of Shipping with resistance against shock of 5-100 Hz.

Aug 07, 2025

Switchboard building >> FTG - Friedrich Göhringer

Standard length of up to 1.90 m permits use as permanently energised rail for the entire height of the switch cabinet. Every other dimension is possible as well, of

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