



Our 8D type range of gas-insulated switchgear represents a highly successful product design. Since its introduction back in 1968 Siemens has installed more than 10,000 bays worldwide. More than 130,000 bay-years of operation have since been recorded.

The 8DN8-72.5 kV switchgear is the logical continuation of this type range. In construction and technical design it corresponds to switchgear 8DN8-145 kV, but is significantly smaller. Its three-phase encapsulated construction makes it possible to achieve extremely low component dimensions. Thanks to its highly compact design it can be installed wherever space is at a premium.

The result of the work of an international development team, the 8DN8-72.5 kV switchgear combines considerable technical expertise with all standards and advantages of the Siemens 8D type range.

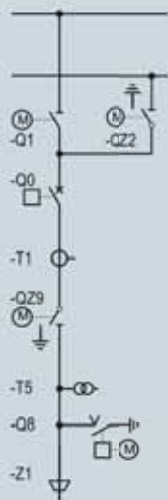
These switchgear feature a number of highlights, in particular:

- Economic efficiency
- High reliability
- Safe encapsulation
- High degree of gas-tightness
- Minimal life-cycle costs
- No maintenance
- Good ergonomics
- High availability
- Independence from atmospheric and external influences
- Long service life

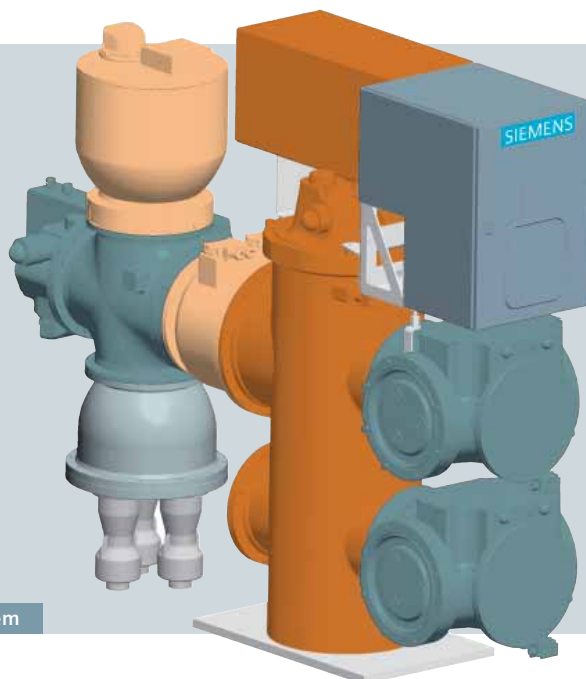
All requirements nowadays specified for modern and advanced switchgear in terms of performance and reliability are met by our type 8DN8-72.5 kV.

A new dimension in **compactness**: The 8DN8-72.5 kV switchgear

It doesn't get any smaller:
compact performance and high reliability in tight spaces



Switchgear bay of a duplicate busbar system



- Control cubicle
- Circuit-breaker
- Disconnector and earthing switch
- Current and voltage transformers
- Termination module

A fundamental feature of our gas-insulated switchgear is the high degree of versatility provided by its modular system. Depending on their respective function, the components are housed either individually and/or combined in compressed-gas-tight enclosures. With a remarkably small number of active and passive modules, all customary bus arrangements are possible.

The circuit-breaker operates using the modern self-compression principle for extinguishing the arc. A spring mechanism provides the energy for switching on and off.

Control and monitoring is implemented with electromechanical components as standard. Alternatively, digital intelligent control and protection system with comprehensive diagnostic and monitoring functions can be supplied.

The quality of Siemens gas-insulated switchgear is guaranteed by an all-encompassing quality and environmental management system and is certified to ISO 9001 and ISO 14001.

This assures the quality of all product life-cycle sequences, ranging from marketing to development and production to after-sales service.

All gas-insulated switchgear are type-tested at independent testing laboratories certified to ISO/IEC 17025.

Technical data	
Switchgear type	8DN8
Rated voltage	up to 72.5 kV
Rated frequency	50/60 Hz
Rated power-frequency withstand voltage (1 min.)	up to 140 kV
Rated lightning withstand voltage (1.2/50 µs)	up to 325 kV
Rated current busbar	up to 2500 A
feeder	up to 2500 A
Rated short-circuit breaking current	up to 31.5 kA
Rated peak withstand current	up to 85 kA
Rated short-time withstand current	up to 31.5 kA
Leakage rate per year and gas compartment	< 0.5 %
Bay width	650 mm
Driving mechanism of circuit-breaker	spring operated
Rated operating sequence	O – 0.3 s – CO – 3 min - CO CO – 15 s - CO
Rated supply voltage	48 – 250 V DC
Ambient temperature	-30 – +40 °C
Expected life time	up to 50 years
Standards	IEC/IEEE; IEC 62271-203

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The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.