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Compact and versatile

Gas-insulated medium-voltage switchgear 8DJH 36

siemens.com/8DJH36

We bring power to the point



Left: Munich is one of the growth drivers in Germany. Urban centers offer chances for sustainable development of electric power distribution.

Below: With dynamic growth, megacities are focusing more and more on energy-efficient and environmentally compatible concepts. In this context, the gas-insulated mediumvoltage switchgear 8DJH 36 is of decisive importance for power supply.

Systems for low and medium voltage

Our products, systems, and solutions for low and medium voltage make power distribution efficient, reliable, and safe – in cities, infrastructure, buildings, and industrial plants. They can be linked to industrial and building automation, and are rounded out by comprehensive support throughout the entire lifecycle.

This is how we provide our customers with answers to their challenges: every second person is living in a city – with an increasing trend. More than ever before, cities play a key role in the fight against climate change. Urban centers around the globe are responsible for 75 percent of the worldwide energy consumption, and for 80 percent of the greenhouse gas emissions caused by humanity. Cities count among the growth drivers of the future, and the growth of these urban centers offers chances for sustainable development of electric power distribution.

The challenge is to configure urban energy consumption for private and public infrastructure in such a way that growth can be designed in an energy-efficient, sustainable, and environmentally compatible way. These electrical infrastructures must meet higher requirements than ever before. In particular, this applies to medium-voltage switchgear assemblies, which play an important role as nodes within power distribution.

Answers to the new challenges of today The gas-insulated medium-voltage switchgear type 8DJH 36 from Siemens provides the right answers to the new challenges of today and tomorrow. The compact switchgear represents reliability and distinct quality. Apart from that, manufacturing procedures that preserve the environment, as well as fully recyclable switchgear components ensure responsible utilization of resources. The switchgear offers a maximum degree of personal safety and operational reliability. Its maintenance-free design reduces the operational costs to a minimum.

This switchgear is the newest chapter of a long story of success. With the development of gas-insulated medium-voltage switchgear, more than 30 years ago, Siemens laid one of the foundation stones for the worldwide success of this technology. Based on the practical experience of more than 1,160,000 installed feeders in the secondary distribution level, and more than 161,000 installed switchgear panels in primary distribution, Siemens gas-insulated medium-voltage switchgear ensures maximum operational availability today.



One switchgear for all requirements

Many advantages

In electric power distribution, 8DJH 36 is an essential operational equipment, with advantages that speak for themselves: compactness, maintenance-free design, climatic independence. Gas-insulated medium-voltage switchgear 8DJH 36 is used as a node in various applications.

Flexibility in switchgear configuration is a decisive factor, particularly for the distribution level up to 36 kV. Thanks to its modular construction, 8DJH 36 sets an example. Functions can be arranged variably not only within a panel block, but also in more complex switchgear layouts. Optionally, all individual panels and panel blocks can be extended. Thus, 8DJH 36 switchgear is suitable for implementing nearly all requirements with different switchgear configurations.

The compactness of 8DJH 36 enables the effective utilization of existing switchgear rooms. New buildings can be constructed smaller, and therefore at considerably lower cost. This ensures an economic utilization of surface, especially in urban areas. In this way, points of supply can be installed close to consumers, and energy losses can be reduced considerably.

Powerful and maintenance-free

Gas-insulated medium-voltage switchgear 8DJH 36 is powerful, and thus perfectly suitable for application in power distribution systems, as well as for energy supply of airports, railway stations, stadiums, and large building complexes such as hotels, banks, or hospitals. Also when using regenerative forms of energy, 8DJH 36 switchgear is convincing due to its special advantages, in particular for application in onshore and offshore wind farms, in hydroelectric and solar power plants.

Especially for projects in the field of renewable energy, solutions with an outdoor enclosure are partially used. For this application, an outdoor enclosure tested for resistance to internal faults with up to four feeders is available.





The compact 8DJH 36 continues the more than 30-year-old tradition of Siemens in the field of gas-insulated medium-voltage switching technology.

The integration of maintenance-free switching devices, a switchgear vessel as a sealed pressure system, as well as solid-insulated, screened cable sealing ends, makes 8DJH 36 maintenance-free for its lifetime. For operators, the operating and personal safety is of central importance. Due to the system design, the switchgear can only be operated with closed front. Logical mechanical interlocks incorporated in the operating mechanisms reliably prevent maloperation.

New detailed solutions guarantee a high degree of flexibility for switchgear configurations, and a high degree of economic efficiency. In short: 8DJH 36 switchgear is the right answer to almost all mediumvoltage switchgear requirements.

Cable feeder

Ring-main feeder

Туре К







Transformer

Circuit-breaker feeder Type L



Air-insulated metering panel Туре М



Scheme





Scheme

Scheme



Scheme



| lock | (S | | |
|------|----|---|------------|
| | | | Walth (mm) |
| pe | | | waith (mm) |
| | R | Т | 1360 |
| | R | L | 1450 |
| | | | |

| | | Wdith (mm) |
|---|----------------------------|--|
| R | Т | 1360 |
| R | L | 1450 |
| Т | R | 1360 |
| L | R | 1450 |
| R | Т | 1360 |
| R | L | 1450 |
| | R R T L R R | R T R L T R L R R T R L |

| Height of the switchgear | 1,600 mm without low-voltage compart- ment (LV compartment) |
|--|--|
| Height of LV com- partment (optional) | 200 mm, 400 mm, 600 mm |
| Depth of the switchgear | 920 mm, 980 mm |

| Depth of the | J20 mm, J00 |
|--------------|-------------|
| switchgear | |
| | |
| | |

Data of the switchgear

| Rated voltage | | kV | 36 |
|--------------------------------------|---------------------------------------|----------|----------------------|
| Rated frequency | | Hz | 50/60 |
| Rated normal current | Busbar | А | 630 |
| | Circuit-breaker and ring-main feeders | Α | 630 |
| | Transformer feeders | А | 200 1) |
| Rated short-time withstand current | For switchgear with $t_k = 3$ s | up to kA | 20 |
| Rated peak withstand current | | up to kA | 50/52 |
| Rated short-circuit making current | | up to kA | 50/52 |
| Rated short-circuit breaking current | Circuit-breaker feeders | up to kA | 20 |
| IAC classification | Wall-standing arrangement | | A FL to 20 kA (1 s) |
| | Free-standing arrangement | | A FLR to 20 kA (1 s) |

1) Depending on HV HRC fuse link

| Dimensions (mm) | | | | | |
|-----------------|------|------|------|--|--|
| Width (W) | 1040 | 1470 | 2060 | | |
| Height (H) | 1700 | 1875 | 2275 | | |
| Depth (D) | 1142 | | | | |







Wind farm

8DJH 36 – Compact design enables installation in the tower of wind turbines



Neilahere

Solar power plant

8DJH 36 – Climatic independence enables worldwide application

Public power supply 8DJH 36 – Reliability reduces downtimes

Hydroelectric power plant

8DJH 36 – Climatic independence leads to a longer service life



Sewage plant

8DJH 36 – Responsible utilization of resources protects the environment

Stadium

8DJH 36 – Highest quality standards ensure availability

Electromobility

8DJH 36 – Intelligent power supply enables sustainable infrastructure development



8DJH 36 – Maintenancefree design reduces opera tional costs



Railway systems

8DJH 36 – Safe switching operations in traction power supply systems

lotel

8DJH 36 – Cost-efficient design provides security of investment

Waste-to-energy plant

8DJH 36 – Type-tested design protects operators safely

Hospital

8DJH 36 – Reliability ensures power supply



Office building

8DJH 36 – Compact construction ensures optimum use of surfaces

8DJH 36 is the ideal solution for today's and tomorrow's requirements in power distribution. Published by Siemens AG 2017

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For more information, please contact our Customer Support Center. Phone: +49 180 524 70 00 Fax: +49 180 524 24 71 (Charges depending on provider) E-mail: support.energy@siemens.com

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Visit 8DJH 36

