

SIEMENS

Ingenuity for life



up to
40.5 kV



8DA/B10 – The Modular Power Pack

Gas-insulated medium-voltage switchgear



When it comes to medium-voltage power distribution, Siemens has developed a wide range of products and solutions, based on experience, innovation, and reliability.

The factory-assembled, type-tested, and metal-enclosed 8DA/B switchgear impresses with the advantages of the vacuum switching technology – for a high degree of independence in all applications.



The enclosed high-voltage part of 8DA and 8DB switchgear is suitable for applications under aggressive ambient conditions, such as saline air, air humidity, dust, and condensation. It is tight to ingress of foreign objects, such as dust, pollution and small animals. Furthermore, the application is independent of the site altitude.



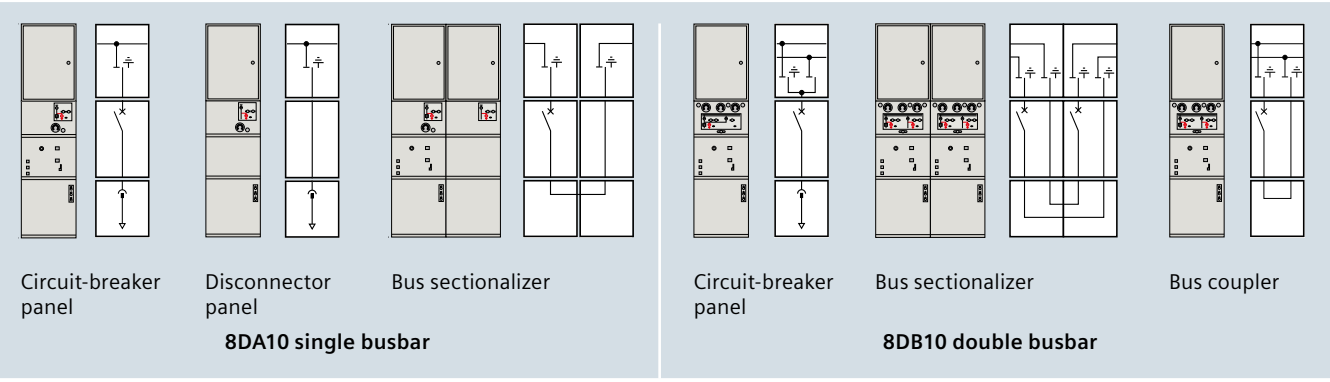
The use of digital secondary systems and combined protection and control devices ensures clear integration in process control systems, flexible and highly simplified adaptation to new system conditions, and thus to cost-efficient operation. A thoroughly convincing switchgear concept that will, under normal operating conditions, be expected to have a service life of at least 35 years, probably 40 to 50 years, taking the tightness of the enclosed high-voltage part into account. As an option, an aseismic design can be provided.

The gas-insulated switchgear 8DA and 8DB is a prime choice for use in transformer and switching substations, e.g. in power supply companies, power stations, cement industry, automobile industry, iron and steel works, rolling mills, mining industry, textile, paper and food industries, chemical and petroleum industry, pipeline and offshore installations, and so on. It is also commonly used in traction power supply systems.

Your advantages

- Independent of environment and climate
- Maintenance-free
- Compact
- Safe for operators
- Cost-efficient
- Ecological
- Reliable and safe operation

8DA/8DB Medium-Voltage Switchgear – Product range (The following selection is not complete)



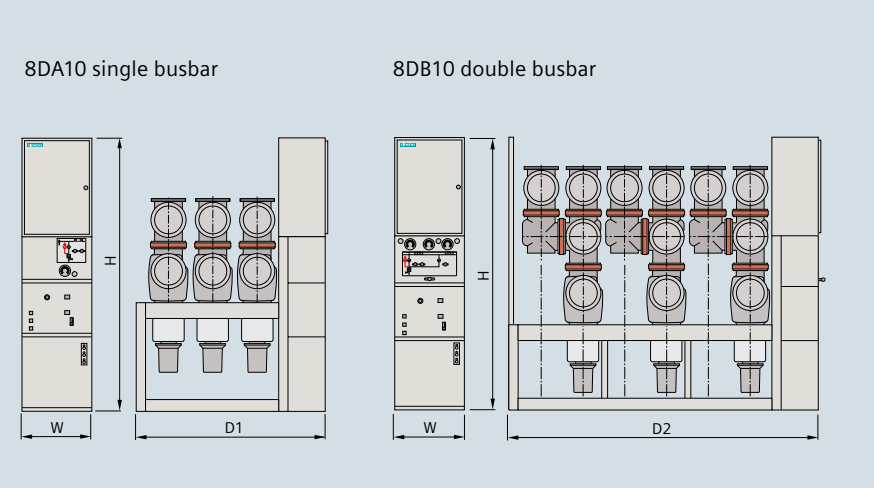
Technical data of 8DA10/8DB10

| Rated | | |
|--|-------|---------|
| Voltage | up to | 40.5 kV |
| Frequency | Hz | 50/60 |
| Short-duration power-frequency withstand voltage | kV | 95 |
| Lightning impulse withstand voltage | kV | 200 |
| Short-circuit breaking current | kA | 40 |
| Short-time withstand current, 3 s | kA | 40 |
| Short-circuit making current | kA | 100/104 |
| Peak withstand current | kA | 100/104 |
| Normal current for busbar | A | 5,000 |
| Normal current for feeders | A | 3,150 |

Performance features

- Type-tested according to IEC 62271-200
- Enclosure with modular standardized housings made from corrosion-resistant aluminum alloy
- Safe-to-touch enclosure and standardized connections for plug-in cable terminations
- Operating mechanisms and instrument transformers are easily accessible outside the enclosure
- Metal-enclosed, partition class PM
- Loss of service continuity category for switchgear: LSC 2
- Internal arc classification: IAC A FLR 40 kA, 1 s

Dimensions of 8DA10/8DB10



| Dimensions | | Dimensions in mm | |
|-----------------|----|--|-------|
| Width (spacing) | W | | 600 |
| Height | H | Standard design | 2,350 |
| | | Design with higher low-voltage compartment | 2,700 |
| Depth | D1 | Single-busbar switchgear | 1,625 |
| | D2 | Double-busbar switchgear | 2,665 |

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