

Retrofitting

Solutions for Merlin Gerin MV distribution DSE SF6 circuit breakers



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Circuit breaker retrofitting is a cost-effective alternative to complete switchgear replacement. ABB Service experts conduct on-site audits on existing installations to assess the condition of the equipment, recommend the most suitable solution and technically support the most appropriate investment.

01 ABB SF6 retrofit solution for DSE 47R 12kV, 1250A and 2500A, 40KA versions

Retrofitting is performed by replacing phased-out devices with circuit breakers from the current production range specifically designed to mechanically and electrically adapt to the existing models in the plant.

The result is substantial improvement in reliability, safety, maintenance and performance.

ABB Service is a complete system provider of retrofitting solutions, from proposal to design, through to manufacturing, testing and finally installation and commissioning.

Facts

Merlin Gerin DSE SF6 circuit breakers can be replaced with the latest ABB vacuum and SF6 circuit breakers.

The replacement of the existing equipment can easily extend the operational service life of the switchgear by several decades.

Use of tried-and-tested ABB SF6 or vacuum circuit breakers allows their superior performance to be extended to switchgear supplied by other manufacturers.



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02 Original Merlin Gerin
DSE 47R SF6 12kV,
1250A and 2500A, 40kA
breakers

Benefits

Reliability

- Significant life-time extension
- Best efficient in maintenance
- Long-term availability of spare parts

Safety

- Considerable reduction in the risk of faults

Technology

- Latest generation apparatus
- Retrofit solution designed according to IEC 62271-100 standard
- DSE 47R retrofit solutions tested and certified in original panel according to IEC 62271-200 and qualified 1E for Nuclear safety-related application

Project

- Rapidly executed replacements
- Minimum switchgear downtime
- Simple plant activities

Investment

- Limited capital investment
- Minimization of further maintenance costs
- Retrofit package covered by warranty

Technical data

ABB offers a full range of retrofit solutions based on vacuum circuit breakers and gas circuit breakers. ABB experts propose the best apparatus for each switchgear unit, depending on the characteristics of the apparatus installed in the network and the specific operating requirements of each unit. The following basic technical data are required in order to provide standard retrofitting solutions:

- Rating plate data and serial number
- Photos of all four sides
- Photo of the switchgear compartment interior
- Existing functional electric circuit diagram
- Generator data for the relevant feeders

Options

- **TruckMaster** remote motorized racking
- **MySiteCare** monitoring and diagnostic
- **MyRemoteCare** cloud based services
- **Power Care** customer support agreement

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