

Retrofit

Solutions for ABB SF₆ gas SFA circuit breaker

Circuit breaker retrofit is a cost-effective alternative to the complete switchgear replacement. ABB Service experts conduct site audits on existing installations to assess the condition of the equipment, recommend the proper solution and support the right investment decision.

Retrofit stands for the replacement of phased-out devices by current production circuit breakers which are mechanically and electrically adapted for the existing engineering. The result is a deep improvement on reliability, safety, maintenance and performances.

ABB Service is a full system provider for retrofit solutions, from the proposal and design, through the manufacturing and testing, up to the installation and commissioning.



Benefits

Reliability

- Significant life time extension
- Lower maintenance requirements
- Long time availability of spare parts.

Safety

- Strong fault risk reduction
- Additional embedded safety features
- Improved operator protection.

Technology

- Latest generation apparatus
- Designed according to IEC 62271-100 Standard
- Tested and certified products.

Project

- Short implementation time for replacement
- Minimum shutdown of the switchboard
- Smooth site activity.

Investment

- Limited capital investment
- Minimization of further maintenance costs
- Warranty on the conversion work.

The original design was based on SF₆ puffer technology. Specific handling procedures shall be applied during maintenance and performed by certified operators according to EC Regulation 305/2008 and SF₆ gas has to be treated as per EC Regulation 842/2008 in those countries complying with.



HD4-SFA gas retrofit

Facts

SFA is the family name of a wide range of SF₆ gas circuit breakers manufactured by ABB and currently phased-out.

They were either manufactured for fitting their own panel and cassette but also delivered to panel builders in both fixed and withdrawable version. Additional variants have been produced during their life cycle due to the technological development, such as 36kV version. Specific versions can be identified looking the apparatus name on the label and taking the part after SFA (e.g. SFAs, sG, sG-CD, 36, 36K, etc.).

Technical Data

A full range of retrofit solutions have been developed based on ABB gas circuit breakers. Vacuum solution can be supplied on request. Perfect one to one inter-changeability is guaranteed from the mechanical and electrical point of view. ABB proposal provides the best fit for purpose apparatus for each switchgear unit, depending of the complete network equipment conditions and the specific feeder operational characteristics.

The following basic details are necessary for providing standard retrofit solutions:

- Data label technical information and serial number.
- Four sides pictures.
- Compartment inner pictures.
- Existing panel schematic diagram.
- Generator data for the relevant feeders.

For more information please contact Service department at:

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