

# Retrofitting Solutions for ABB SF<sub>6</sub> gas SRC contactor

Contactor retrofits are a cost-effective alternative to complete switchgear replacement. ABB Service experts conduct site audits on existing installations to assess the condition of the equipment, recommend the most suitable solutions and technically support the most appropriate investment.

The retrofitting activity is carried out by replacing phased-out devices with current production contactors suitably designed to adapt mechanically and electrically to the existing models in the plant. The result is a great improvement in reliability, safety, maintenance and performances.

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

## Benefits

### Reliability

- Significant extension of plant life
- Less maintenance
- Wide availability of spare parts

### Safety

- Great reduction in risks of faults
- Additional incorporated safety functions
- Improved operator protection

### Technology

- Latest generation apparatus
- Design according to the IEC 60470 Standard
- Tested and certified contactors

### Project

- Short replacement times
- Minimum switchgear downtime
- Simple plant activities

### Investment

- Limited capital investment
- Reduction of all other maintenance activities
- ABB warranty on the retrofit package



SRC - SF<sub>6</sub> gas contactor

## General information

SRC is the family name of a wide range of SF<sub>6</sub> gas contactors manufactured by ABB in the past and which has now been phased-out.

The installed base includes dedicated apparatus for operation in ABB UniVer C switchgear and CBE1 enclosures, but also models in fixed and withdrawable versions supplied to other manufacturers.

Additional versions were introduced onto the market during the active life cycle of the product, linked to technological development, such as the certified versions for marine applications.

The original design was based on the rotating arc technology in SF<sub>6</sub> gas.

Specific operating procedures have to be applied during maintenance activities and these must be performed by qualified personnel according to EC Regulation 305/2008 and the SF<sub>6</sub> gas must be treated as laid down in EC Regulation 842/2008.



Retrofitting solution with VSC-SRC vacuum contactors



VSC-SRC version for marine plants

### Technical Data

A full range of retrofitting solutions has been developed based on ABB vacuum contactors.

ABB's offer proposes the best apparatus for each switchgear unit, depending on the characteristics of the apparatus inserted 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 interior of the switchgear compartment
- existing functional electric circuit diagram.

### Ratings

Type	VSC-SRC 7	VSC-SRC 12
Rated voltage [kV]	7.2	12
Rated current [A]	400	400
Rated short-circuit current [kA]	50 (1)	50 (1)

(1) Limited by the fuses.

For further information, please contact the Service department at:

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