

# Retrofitting Solution for TMG GMP/FB4 type SF<sub>6</sub> Circuit Breakers

The foremost advantage of retrofitting a circuit breaker in switchgear is that the required specifications are met with the latest technology at only a partial cost of replacing the equipment. This becomes more evident when the associated costs of civil works, cabling and downtime are considered. Retrofitting helps in saving up to 60% of the cost of new equipment.

Typically, retrofitting constitutes replacement of vital equipment having similar or advanced features, for life extension, reduced maintenance and improved functionality. This includes upgradation & modernization of basic equipment and allied parts. The retrofitted switchgear offers far greater system reliability, long term availability of spares and increased safety to the operators with minimal investment and downtime. ABB 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

- 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



TMGs GMP Circuit Breaker

## Facts

TMG SF<sub>6</sub> circuit breakers are widely present in market. They were manufactured for fitting their own panel and available in withdrawable trolley / truck mounted version. Additional variants were available during their life cycle and specific versions can be identified looking at the apparatus name on the label.

## Technical data

A full range of retrofit solutions have been developed based on ABB vacuum circuit breakers. Perfect one to one interchangeability is guaranteed from electrical and mechanical point of view. ABB proposal provides the best fit for purpose apparatus for each switchgear unit, depending on the complete network equipment conditions and the specific feeder operational characteristics.

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

- Height, width and depth of the circuit breaker compartment
- GA and schematic drawing of the existing panel
- Height, width and depth of the panel
- Control voltage
- Feeder details
- Four side pictures
- Data label and technical information and serial number
- Compartment inner pictures

For more information please contact Service department at:

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Note: We reserve the right to make changes in the course of technical development.



ABB VD4 Vacuum Retrofit of TMGs GMP/FB4 Circuit Breaker