Circuit breaker retrofit is a cost-effective alternative to the complete switchgear replacement. 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 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.

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

Viarc VRB is the family name of a wide range of vacuum 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. Specific versions can be identified looking the apparatus name on the label (e.g. VRBs, sG, etc.).

The original design included non-ABB vacuum interrupters not available anymore. The vacuum seal was guaranteed for 20 years by the manufacturer; however the interrupters life is also linked to the relevant contacts wear and therefore both parameters have to be taken into account for defining the residual apparatus life.

Safety and Reliability
- Strong fault risk reduction and significant life time extension
- Racking in-out motorization option and improved operator protection
- Lower maintenance requirements and long time availability of spare parts

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

Protect your assets
- Latest generation solution designed according to IEC 62271-100 Standard
- Short implementation time for replacement with minimum shutdown of the switchboard
Technical data
ABB offers a full range of retrofit solutions based on current ABB vacuum and gas circuit breakers production, guaranteeing perfect one to one interchangeability with existing 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
• Four sides pictures
• Compartment inner pictures
• Existing panel schematic 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

For more information please contact:

More product information:
abb.com/mediumvoltage
Your contact center:
abb.com/contactcenters
More service information:
abb.com/service

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