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.

Bulk-oil circuit breakers manufactured by Brush Switchgear since the 60’s as part of the VSI (single busbar system) and VTD (double busbar system) switchgear can be replaced with the latest generation ABB VD4 type vacuum circuit breakers. Other product variants, like the VSI/VAC version, come under the same solution.

This equipment has been in service for 30 to 40 years and its replacement can easily extend the operational life of the switchgear for decades.

ABB vacuum retrofitting circuit breakers allow the bulk-oil based apparatus to be removed, thereby eliminating the fire hazard.

The use of the well-proven VD4 type circuit breaker allows the performances available with the ABB switchgear to be extended, even for products made by other manufacturers.

Minor modifications to the existing switchgear allow the requirements of the IEC Standards in force to be met. The retrofit circuit-breakers can be fitted with medium voltage surge arresters on request.

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 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 functional electric circuit diagram
- Generator data for the relevant feeders

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<table>
<thead>
<tr>
<th>Ratings</th>
<th>Mid-low range</th>
<th>High range</th>
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<tbody>
<tr>
<td>Rated voltage [kV]</td>
<td>...12</td>
<td>12</td>
</tr>
<tr>
<td>Rated current [A]</td>
<td>...1250</td>
<td>...1250</td>
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<tr>
<td>Rated short-circuit current [kA]</td>
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<td>...40</td>
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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:
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More service information:
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