Standard retrofit circuit breakers
METE medium voltage switchgears

Extend the lifetime of your METE switchgear by replacing the original OSA circuit breaker (CB) with the new HD4 or VD4.

The standardized HD4 and VD4 CBs represent the latest technology, but are still both mechanically and electrically compatible with the original METE switchgear. CB retrofit provides an ideal, safe and cost-efficient alternative to replacing the entire switchgear, with significantly improved switchgear reliability, safety, maintenance and performance as a result.

Benefits:

Safety
• Improved operator safety
• Additional embedded safety features
• Environmentally friendly VD4 solution

Reliability
• Significant lifetime extension of the switchgear
• Increased maintenance intervals
• Long-term availability of spare parts

Investment
• CB retrofit less expensive than switchgear replacement
• Reduced maintenance costs
• Standard warranty

Technology
• New generation CBs
• Designed according to the IEC 62271-100 standard

Execution
• Fast and easy installation and commissioning
• Minimum cubicle outage
Complete CB retrofit solution
ABB’s CB retrofit solution can cover everything from mapping and design, manufacturing and testing, to installation and commissioning.

The condition of existing installations can be assessed through a site audit, based on which a solution is proposed to support the investment decision.

Support throughout the entire life cycle
To ensure maximum return on investments, ABB provides the following life cycle services for METE switchgears:
• CB retrofits
• Protection relay retrofits
• Maintenance and repair services
• Original spare parts service

Standards and approvals
The HD4 and VD4 CBs comply with the IEC 62771-100 and CEI 17-1/1375 standards.

Additional information
For more information, please contact your local ABB representative or visit our website at:
abb.com/service
abb.com/mediumvoltage

<table>
<thead>
<tr>
<th>Circuit breaker type</th>
<th>HD4</th>
<th>VD4</th>
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</thead>
<tbody>
<tr>
<td>Rated voltage [kV]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>630 - 2500</td>
<td>20 - 40</td>
</tr>
<tr>
<td>24</td>
<td>630 - 1250</td>
<td>16 - 25</td>
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