VXC High
Indoor Vacuum Circuit Breaker for high ratings up to 75,000 Operating Cycles

When increasing the capacity of your production lines for industrial applications with high ratings such as metallurgy, you need high performance equipment to ensure service continuity.

Field-tested and time-proven high duty indoor vacuum circuit breakers from AREVA T&D ensure stability, reliability and extra-long service life even in extreme conditions.

EXTREMELY ROBUST CIRCUIT BREAKERS FOR INTENSIVE INDUSTRIAL APPLICATIONS AT VERY HIGH RATINGS

Based on our proven circuit breaker construction developed in the 1980s, the VXC indoor vacuum circuit breaker family is ideally suited for use under extreme or difficult conditions such as in steel plants.

The robust construction and the "ECO exchange program" of this particular switchgear offers an extra high number of operating-cycles (up to 75,000 ON/OFF operations) as well as flexible switchboard integration and high switching performance for inductive and capacitive currents.

VXC HIGH COMPLETES THE RANGE

VXC High is completing the product family with ratings up to 38 kV, 40 kA, 4,000 A. Specially developed for the requirements of industrial furnace circuit breaker applications it covers also the needs for extreme high energy distribution in different production and distribution processes.

It offers:
> High switching performance for inductive and capacitive currents
> High number of mechanical operations
> Easy access to all components
> Easy handling for operation and maintenance.

For more installation options, VXC High installation can be fixed-mounted or on a withdrawable truck.

AREVA T&D's VXC High circuit breaker meets the requirements of all appropriate IEC standards. It is the optimal choice to support your efficiency programs.

Customer Benefits
- Extremely robust and simple construction
- Extra high mechanical and electrical switching capacity
- Designed for high operating cycles
- User-friendly
- Extensive service experience
- Minimum maintenance
ROBUST BREAKER-POLE CONSTRUCTION

The XVC High circuit breaker is designed as a isolator breaker-pole construction. The poles are mounted on a common base frame by means of two cast resin insulators. The construction allows compact design with a minimum of solid insulation material. By providing strong supports, the pole section holds the vacuum chamber solidly, ensuring that it is completely free from any effects of external forces. The axial forces occurring during the making and breaking function act only on the contact system. This keeps the vacuum chamber unstressed. The robust cooler design assures the safe operation at very high nominal currents. The simple and flexible construction of the circuit breaker allows solutions to be created for special customer requirements.

MECHANICAL DRIVE UNIT

The spring actuated drive and other ancillary mechanics are protected in the drive cabinet, which includes:

- Drive mechanism
- Electrical motor drive
- Auxiliary switches
- Release coils
- Operation counter
- Mechanical operation and indication mechanism.

OPTIONS AND ACCESSORIES

- Low voltage connection 64-pole
- Additional trip coil
- Indirect overcurrent trip
- Undervoltage trip
- Magnetic interlock
- Initiator switch
- Key lock for push button ON and OFF
- Anti-pumping relay
- Transport trolley
- Manual operating crank for spring charged mechanism

TECHNICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>36, 38, 38*</td>
</tr>
<tr>
<td>Rated lightning impulse withstand voltage (BIL)</td>
<td>170, 150, 200</td>
</tr>
<tr>
<td>Rated power frequency withstand voltage</td>
<td>70, 70, 95</td>
</tr>
<tr>
<td>Rated current (up to)</td>
<td>4000, 4000, 4000</td>
</tr>
<tr>
<td>Rated short-time current (3s) (up to)</td>
<td>40, 40, 40</td>
</tr>
<tr>
<td>Rated short-circuit making current (up to)</td>
<td>100, 100, 100</td>
</tr>
<tr>
<td>Rated short-circuit breaking current (up to)</td>
<td>40, 40, 40</td>
</tr>
<tr>
<td>Rated frequency</td>
<td>Hz 50/60, 50/60, 50/60</td>
</tr>
</tbody>
</table>

* on request ** Special maintenance service on request

ECO exchange program: 75,000

Number of mechanical operating-cycles of drive mechanism 10,000 / 25,000

Number of electrical switching-cycles with rated current 10,000 / 25,000

DIMENSIONS AND WEIGHT

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>36/38</td>
</tr>
<tr>
<td>Rated current</td>
<td>A 4000</td>
</tr>
<tr>
<td>Pole center distance “A”</td>
<td>mm 400</td>
</tr>
<tr>
<td>Width “W”</td>
<td>mm 1100</td>
</tr>
<tr>
<td>Depth “D”</td>
<td>mm 1140</td>
</tr>
<tr>
<td>Height “H”</td>
<td>mm 1290</td>
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<tr>
<td>Weight approx.</td>
<td>kg 450</td>
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</tbody>
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