ABB’s FSK II + vacuum breaker uses a well-proven combination of magnetic actuator and electronic controller that eliminates several moving parts, making it robust, reliable and essentially maintenance-free.

**Key features**
- Simple and flexible design with selection of HV terminal configurations
- Highly compact
- Well-proven solution using a magnetic actuator and electronic controller
- Poles fitted with polymeric insulators (or porcelain on request)
- Fast and easy to replace any main component; poles and control units are replaceable
- No SF6 gas
- Available in single- or two-phase configurations
- Suitable for new installations, refurbishments and upgrades
- Suitable for 1x25 kV and 2x25 kV lines, classic structure mounted outdoor switchgear (SMOS), and integrated modules

**Customer benefits and savings**
- Easy to install and commission
- No need for mechanical adjustment
- Low overall power demand
- Minimal maintenance costs
- Fewer moving parts
- Easy site delivery (pole and controller are totally independent and do not need to be paired on site)
- Better performance in polluted environments with polymeric insulators (no frequent cleaning cost, no vandalism damage, minimal inventory costs)
- No SF6 emission, lower environmental impact
- No need for SF6 inventory or control
- No leak or failure concern

**ABB as your competitive edge**
- More than 100 years of expertise in rail best practices
- Dedicated team of rail professionals
- Global supplier with global footprint
- Proven track record with many customer references worldwide
- All equipment manufactured internally by ABB with full monitoring and control of the entire design, production and delivery process
- Unrivalled level of engineering support and after-sales service
## Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated voltage</td>
<td>27.5 kV</td>
</tr>
<tr>
<td>Rated continuous current</td>
<td>1250/1600 A - 2000/2500 A</td>
</tr>
<tr>
<td>Rated frequency</td>
<td>50 (60) Hz</td>
</tr>
<tr>
<td>Number of phases</td>
<td>1 or 2</td>
</tr>
<tr>
<td>Rated short-circuit breaking current</td>
<td>8....25 kA</td>
</tr>
<tr>
<td>Rated short-circuit making current</td>
<td>50....63 kA</td>
</tr>
<tr>
<td>Rated short time withstand current</td>
<td>25 kA, 3 s</td>
</tr>
<tr>
<td>Rated power frequency withstand voltage</td>
<td>105 kV</td>
</tr>
<tr>
<td>Rated impulse withstand voltage</td>
<td>250 kV</td>
</tr>
<tr>
<td>Opening/Closing time</td>
<td>≤ 45 /≤ 65 ms</td>
</tr>
<tr>
<td>Electrical endurance, at rated current (operations)</td>
<td>20,000</td>
</tr>
<tr>
<td>Mechanical endurance to first maintenance (operations)</td>
<td>Class M2, 10,000</td>
</tr>
<tr>
<td>Standard applied</td>
<td>EN 50152-1 / IEC 62271-100</td>
</tr>
</tbody>
</table>

More product information: 
[abb.com/medium-voltage](http://abb.com/medium-voltage)  
Your contact center:  
[abb.com/contactcenters](http://abb.com/contactcenters)  
More service information:  
[abb.com/service](http://abb.com/service)  

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