UniGear 500R is very space efficient solution, designed to reduce the width of the medium-voltage air-insulated switchgear. Panel design is only 500 mm wide for feeder current up to 2000 A. Its compact design makes UniGear 500R ideal for container installation for primary distribution.

One of the main characteristics of the UniGear 500R switchgear is the isolation of the circuit-breaker from the main busbars by means of the three-position disconnector.

**Features**
- Standards: IEC, ENA
- Design: LSC-2A, PM
- Accessibility type: A
- Internal arc class: FLR
- Highly customized versions available
- Switchgear can be back to wall installed

**Safety**
- Fully type tested according to IEC 62271-200
- Fitted with safety interlocks
- Vacuum circuit-breaker in a removable arrangement

**Switching devices**
- Vmax vacuum circuit breaker with spring actuator

**Current and voltage measurement**
- Current and voltage sensors
- Conventional current and voltage instrument transformers

**Protection and control**
- Relion® protection and control relays

**Optionally available with**
- Optical arc fault protection
- Surge arresters
- Substation management unit COM600S
- Smart Asset Management solutions
UniGear 500R

**Protection relay with IEC 61850**

**Low voltage compartment**

**Apparatus compartment**

**Cable compartment**

**Busbar compartment**

**Current transformer**

**Voltage transformer**

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**Switchgear**

<table>
<thead>
<tr>
<th>Feature</th>
<th>12 kV</th>
<th>17.5 kV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal Arc Classification (IAC)</td>
<td>AFLR</td>
<td>AFLR</td>
</tr>
<tr>
<td>Rated voltage [kV]</td>
<td>12</td>
<td>17.5</td>
</tr>
<tr>
<td>Maximum service voltage [kV]</td>
<td>12</td>
<td>15.4</td>
</tr>
<tr>
<td>Insulation levels / power frequency / lightning impulse [kV]</td>
<td>12 / 28 / 75</td>
<td>17.5 / 38 / 95</td>
</tr>
<tr>
<td>Rated frequency [Hz]</td>
<td>50 / 60</td>
<td>50 / 60</td>
</tr>
<tr>
<td>Rated main busbar current (40°C) [A]</td>
<td>...4 000</td>
<td>...4 000</td>
</tr>
<tr>
<td>Rated feeder current (40°C) [A]</td>
<td>...2 000</td>
<td>...2 000</td>
</tr>
<tr>
<td>Rated short-time current [kA x 3 s]</td>
<td>...31.5</td>
<td>...31.5</td>
</tr>
<tr>
<td>Arc proof withstand current (IEC 62271-200) [kA x 1 s]</td>
<td>...31.5</td>
<td>...31.5</td>
</tr>
<tr>
<td>Height [mm]</td>
<td>2 200 ... 2 533(*)</td>
<td>2 200 ... 2 533(*)</td>
</tr>
<tr>
<td>Width [mm]</td>
<td>500 / 1 000</td>
<td>500 / 1 000</td>
</tr>
<tr>
<td>Depth [mm]</td>
<td>1 320</td>
<td>1 320</td>
</tr>
</tbody>
</table>

Technical catalog

1VCP000285

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*) With installed gas exhaust duct