Performance features at a glance.

- A Circuit-breaker compartment
- B Low voltage compartment
- C Busbar compartment
- D Cable connection compartment

1. Vacuum circuit-breaker
2. Terminal blocks
3. Upper/lower busbar terminals
4. Upper/lower contact pins
5. Bay control and protection unit REF542
6. Automatic shutters

*Customer components

Rated voltage kV 36 40.5
Rated power frequency withstand voltage kV 70 80
Rated lightning impulse withstand voltage kV 170 200
Rated current:
A 3150 3150
B 2500 2500
C 2000 2000

Rated peak short-circuit current kA...31.5 ...31.5
Rated short-time current, 3 s kA ...31.5 ...31.5
Rated short-circuit breaking current kA ...31.5 ...31.5
Rated short-circuit making current kA ...80 ...80

Dimensions:
- Height mm 2200 2200
- Depth mm 1000 1000
- Depth (including terminal blocks) mm 1466 1466
- Width mm 1200 1200
- Pole centres mm 280 280
- Weight kg 870-950 870-950

4) 2500 A / 40°C with natural ventilation
2000 A / 55°C with natural ventilation
3) 80 A / 40°C with forced ventilation
80 A / 55°C with natural ventilation

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Competition and growing demands for the availability of electrical energy are confronting switchgear manufacturers with new challenges.

To optimise the existing ranges.
To develop new concepts.
To supply safe, versatile and economical solutions with innovative products and services.

One result of our intensive dialogue with users is Powerbloc.

Powerbloc – a high quality, series manufactured basic component from ABB Calor Emag for construction of air insulated medium voltage switchgear installations. With Powerbloc, supplemented by the customer’s own components, users from sectors of power generation, distribution and supply find solutions precisely tailored to suit their individual needs – solutions which are therefore the most cost-effective.

Safety.
- High resistance to internal arc faults
- Comprehensive visual interlocks
- Operation of all switching devices with the front door closed

Versatility.
- Customer supply of the busbar compartment, cable compartment and low voltage compartment as required
- Individually selectable use of conventional or modern secondary systems

Economical.
- Compact panel components from series production
- Maintenance-free withdrawable vacuum circuit-breaker
- High number of operating cycles
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Rated voltage kV 36 40.5
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Rated current

<table>
<thead>
<tr>
<th>Current Type</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>3150 A / 40 °C with forced ventilation</td>
<td>3150</td>
<td>3150</td>
</tr>
<tr>
<td>2500 A / 55 °C with natural ventilation</td>
<td>2000</td>
<td>2000</td>
</tr>
</tbody>
</table>

Rated peak short-circuit current kA

<table>
<thead>
<tr>
<th>Current Type</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>...80 ...80</td>
<td>...80 ...80</td>
<td></td>
</tr>
</tbody>
</table>

Rated short-time current, 3 sec kA

<table>
<thead>
<tr>
<th>Current Type</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>...31.5 ...31.5</td>
<td>...31.5 ...31.5</td>
<td></td>
</tr>
</tbody>
</table>

Rated short-circuit breaking current kA

<table>
<thead>
<tr>
<th>Current Type</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>...80 ...80</td>
<td>...80 ...80</td>
<td></td>
</tr>
</tbody>
</table>

Rated short-circuit making current kA

<table>
<thead>
<tr>
<th>Current Type</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>...80 ...80</td>
<td>...80 ...80</td>
<td></td>
</tr>
</tbody>
</table>

Dimensions:

<table>
<thead>
<tr>
<th>Dimension</th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height mm</td>
<td>2200</td>
<td>2200</td>
</tr>
<tr>
<td>Depth mm</td>
<td>1900</td>
<td>1900</td>
</tr>
<tr>
<td>Depth (including terminal block) mm</td>
<td>1466</td>
<td>1466</td>
</tr>
<tr>
<td>Width mm</td>
<td>1200</td>
<td>1200</td>
</tr>
<tr>
<td>Pole centres mm</td>
<td>280</td>
<td>280</td>
</tr>
<tr>
<td>Weight kg</td>
<td>870-950</td>
<td>870-950</td>
</tr>
</tbody>
</table>

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Powerbloc 36/40.5 kV
Air-insulated medium voltage switchgear module