The Sitras® ASG15 air-insulated medium-voltage switchgear is intended for use as linking element between traction power distribution level and catenary system and ensures a secure and reliable power supply in single-phase 16.7 Hz railway systems.

The type-tested compact switchgear panels meets all the requirements today made to powerful AC traction power supply components.

Features

- Highest equipment and personnel safety
  - Metal-clad partitions
  - Internal arc classified
- Factory-assembled and compact
  - Panel-integrated control and protection technique
  - Integrated feeder-related contact-line testing device (AGP)
  - 40 kA circuit-breaker with only one interrupter
- High system availability but low life cycle costs
  - Use of low-maintenance components
  - Use of a circuit-breaker truck
Design

Compact design

- Small dimensions in face of full metal compartmentalization
- Use of a space-saving local device for contact-line testing (AGP)
- Powerful 40 kA vacuum circuit-breaker with only one interrupter
- Panel-integrated control and protection devices

Service and operation secure design

- Several metal-clad functional compartments
- Integrated pressure relief duct
- Integrated electrical and mechanical interlockings
- Feeder and busbar earthing via short-circuit-proof earthing switches
- Metall shutter system to prevent contact with energized parts
- Type-tested acc. to IEC 62271-200

Low-maintenance design

- Use of proven almost maintenance-free components
- Reduced dust deposit due to metal-clad design
- Timesaving maintenance due to truck mounted circuit-breaker and contact-line testing device (AGP)

Mechanical design

- Robust Alu-zinc coated steel sheet frame
- Connection of up to four power cables by indoor cable sealing ends
- Different metal-clad compartments for circuit-breaker, cable connection, busbar and low-voltage
Layout of feeder panel: left view, panel opened

1. Pressure relief duct
2. Low-voltage compartment
3. Busbar compartment
4. Main busbar
5. Tulip moving contact
6. Current transformer
7. Vacuum interrupter
8. Voltage transformer
9. Earthing switch
10. Cable connecting plate
11. Contact-line testing device (AGP)
12. Circuit-breaker compartment
13. Earthing bar
14. Cable connection compartment
## Technical data

<table>
<thead>
<tr>
<th>Sitras ASG15</th>
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<tbody>
<tr>
<td>Nominal voltage acc. to EN 50163</td>
<td>[kV] 15</td>
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<td>Rated insulation voltage acc. to EN 50124-1</td>
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<td>Rated frequency</td>
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<td>Rated short duration power frequency withstand voltage</td>
<td>[kV] 50</td>
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<tr>
<td>Rated lightning impulse withstand voltage</td>
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<tr>
<td>Rated short-circuit breaking current</td>
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<td>Rated short-time withstand current, 1 s</td>
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<td>Rated short-circuit making current</td>
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<td>Rated normal current feeder/busbar</td>
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<td>Height [mm]</td>
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<td>Relative humidity (non condensing)</td>
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<td>Standards for railway applications</td>
<td>EN 50124; EN 50152</td>
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