Emergency disconnect switches
Single pole ON/OFF
S132 Series
**S132 Series emergency disconnect switches**  Single-pole ON/OFF

Schaltbau S132 Series manual disconnect switches are capable of opening a power circuit quickly and effectively. Installation of these switches enhances safety at the work place significantly (meeting requirements for accident prevention).

S132 Series switches are intended for use with DC applications. Magnetic blowouts allow for higher breaking capacity. As a consequence the polarity of the terminals must be strictly observed when connecting these switches.

Load circuits are closed by pulling the red mushroom knob and ruptured by pushing it down. The positive opening operation guarantees that the contacts open in the event of an emergency. Thanks to its snap mechanism the switch once actuated will complete the switch off procedure in any case, because the snap mechanism works independent of the actuator. For ON and OFF there are two maintained positions.

Optional is a lockable version complete with cylinder lock. The disconnect switch may be locked when engaged to the OFF position so as to prevent unauthorized use - with key removable only in OFF position.

**Features**

- Snap action with one NC contact block
- Permanent-magnetic blowout
- Manual disconnect single pole ON/OFF

**Applications**

Schaltbau emergency disconnect switches are designed for use with battery-powered vehicles such as fork lift trucks, reach trucks, pedestrian stacker trucks and other warehouse machines.

**Ordering code**

<table>
<thead>
<tr>
<th>Example:</th>
<th>S132-1-Z0</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series</strong></td>
<td>S132 single pole</td>
</tr>
<tr>
<td><strong>Version</strong></td>
<td></td>
</tr>
<tr>
<td>Z0</td>
<td>no lock cylinder</td>
</tr>
<tr>
<td>Z1</td>
<td>lockable version*</td>
</tr>
<tr>
<td>Z2</td>
<td>complete with lock plate and lock cylinder 51</td>
</tr>
</tbody>
</table>

**Special variant**

If you need a special variant feel free to contact us. Maybe the type of disconnecting switch you are looking for is among our many **special designs**. If not, we also supply **customized designs**. In this case, however, minimum order quantities apply.

**Accessories**

- Lock cylinder 51: ZHS 4A251
- Lock plate: ZP-S13x

* Retrofitting is only possible with the lockable version S132-1-Z1. With it, you can order lock cylinder 51 (ZHS 4A251) and lock plate (ZP-S13x) as accessories at any time later.*
### Circuit diagram

![Circuit diagram](image)

### Specifications

<table>
<thead>
<tr>
<th>S132 Series</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Conventional thermal current $I_{th}$</td>
<td>125 A</td>
</tr>
<tr>
<td>Inrush current</td>
<td>600 A</td>
</tr>
<tr>
<td>Rated operating current $I_e$</td>
<td>at 24 V: 250 A, at 48 V: 200 A, at 80 V: 150 A</td>
</tr>
<tr>
<td>Maximum breaking capacity</td>
<td>24 V DC, L/R=15 ms, 1,000 A, 48 V DC, L/R=15 ms, 800 A, 80 V DC, L/R=15 ms, 600 A</td>
</tr>
<tr>
<td>Rated insulation voltage $U_i$</td>
<td>160 V</td>
</tr>
<tr>
<td>Rated impulse withstand voltage $U_{\text{imp}}$</td>
<td>4 kV at PD3</td>
</tr>
<tr>
<td>Mechanical endurance</td>
<td>30,000 operating cycles</td>
</tr>
<tr>
<td>Degree of protection (IEC 60529)</td>
<td>IP00</td>
</tr>
<tr>
<td>Mounting position</td>
<td>any</td>
</tr>
<tr>
<td>Terminals</td>
<td>M8 screw-type</td>
</tr>
</tbody>
</table>

### Dimension diagrams

![Dimension diagrams](image)

### Accessories, Mounting

#### Lock plate with lock cylinder 51

- Mounting plate (Thickness 4 mm max.)
- Cylinder lock
- Lock plate
- Main terminals M8, silver plated
- Key in lock position (allowable)
- Panel mount
- Keylock switch version

#### Cutout

- Borings for cylinder lock
- Borings for mounting screws M5

**Note:**

Version for retrofitting also available. In this case order S132-1-Z1, refer to ordering code.

**Tightening torque**

- Main terminals (Ø): Screw M8: 12 Nm max.
- Panel mount (Ø): Screw M5: 3 Nm max.

Reduced scale diagrams / dimensions in mm
### Electrical Components and Systems for Railway Engineering and Industrial Applications

#### Connectors
- Connectors manufactured to industry standards
- Connectors to suit the special requirements of communications engineering (MIL connectors)
- Charging connectors for battery-powered machines and systems
- Connectors for railway engineering, including UIC connectors
- Special connectors to suit customer requirements

#### Snap-action switches
- Snap-action switches with positive opening operation
- Snap-action switches with self-cleaning contacts
- Enabling switches
- Special switches to suit customer requirements

#### Contactors
- Single and multi-pole DC contactors
- High-voltage AC/DC contactors
- Contactors for battery powered vehicles and power supplies
- Contactors for railway applications
- Terminal bolts and fuse holders
- DC emergency stop switches
- Special contactors to suit customer requirements

#### Electrics for rolling stock
- Equipment for driver’s cab
- Equipment for passenger use
- High-voltage switchgear
- High-voltage heaters
- High-voltage roof equipment
- Equipment for electric brakes
- Design and engineering of train electrics to customer requirements

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With compliments:

We reserve the right to make technical alterations without prior notice.  
For updated product information visit www.schaltbau-gmbh.com.  
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