Contactors

EKS127 series
Terminal bolts
Catalogue B100.en
Single terminal bolts from Schaltbau are easily incorporated in assemblies of switchgear and control panels for the purpose of electrical termination. They are designed for amperages and voltages applicable to electrical equipment used on rolling stock or material handling vehicles.

**Specifications**

**Materials**
- **Base**: Polyamide, fibre glass reinforced
- **Terminal bolt**: Steel, zinc-plated

**Temperature range**: -20°C ... +70°C

**Max. temperature of bolt**: 120°C

**Rated insulation voltage** $U_i$ to IEC 60947-1
- when fastened with 2 M4 screws
  - EKS127 a /N: 800 V
  - EKS127 b /N: 1,000 V
  - EKS127 c /N: 630 V
  - EKS127 d /N: 1,000 V
- when mounted on rail
  - EKS127 a /N: 800 V
  - EKS127 b /N: 1,000 V
  - EKS127 c /N: 630 V
  - EKS127 d /N: 1,000 V

**Conventional thermal current** $I_{th}$
- EKS127 a /N: 200 A
- EKS127 b /N: 300 A
- EKS127 c /N: 300 A
- EKS127 d /N: 500 A

**Mounting**
- Single terminal bolt, max. torque
- Several bolts in series on rail with 2 M4 screws
  - 1.5 Nm
- with split ring
  - 1.5 Nm

**Other bolt sizes, max. torque**
- M 8: 15 Nm
- M 10: 25 Nm
- M 12: 30 Nm

**Applications**
- Mounting and distribution panels
- Terminal blocks
- Keylock switches
- Emergency disconnect switches

**Features**
- 4 different sizes available
- Rugged Design
- Fastened with 2 M4 screws or mounting on rail
- Base of terminal bolt flame retardant to UL 94 V-0

**EKS127 series** terminal bolts can be used as individual terminals or mounted onto a rail to form a terminal block, where connections are made by cable lugs, terminal tags, or bus bar. They are also suitable as insulated mounting support for switching elements or in other electrical components.

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**S135 Series emergency disconnect switch:** Two terminal bolts are used for electrical connection as well as mechanical connection between switching mechanism and cam-operated switching element.
### Ordering code  Terminal bolts, split rings, spacer sleeves

- **Terminal bolt EKS127 a /N, EKS127 b /N, EKS127 c /N, EKS127 d /N**

<table>
<thead>
<tr>
<th>Ordering code</th>
<th>Bolt</th>
<th>Length</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>EKS127 a /N</td>
<td>M 8</td>
<td>20</td>
<td>24 g</td>
</tr>
<tr>
<td>EKS127 b /N</td>
<td>M 10</td>
<td>20</td>
<td>31 g</td>
</tr>
<tr>
<td>EKS127 c /N</td>
<td>M 10</td>
<td>30</td>
<td>37 g</td>
</tr>
<tr>
<td>EKS127 d /N</td>
<td>M 12</td>
<td>45</td>
<td>60 g</td>
</tr>
</tbody>
</table>

- **Rail mounting: Split ring for single terminal bolt**

<table>
<thead>
<tr>
<th>Ordering code</th>
<th>for use with Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>HR-abc</td>
<td>EKS127 a /N, EKS127 b /N, EKS127 c /N</td>
</tr>
<tr>
<td>HR-d</td>
<td>EKS127 d /N</td>
</tr>
</tbody>
</table>

- **Rail mounting: Spacer sleeve**

<table>
<thead>
<tr>
<th>Ordering code</th>
<th>for use with Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>DB-abc</td>
<td>EKS127 a /N, EKS127 b /N, EKS127 c /N</td>
</tr>
<tr>
<td>DB-d</td>
<td>EKS127 d /N</td>
</tr>
</tbody>
</table>

### Dimension diagram  Single terminal bolt, Accessories

- **Terminal bolt EKS127 a /N, EKS127 b /N, EKS127 c /N**

- **Split ring HR-abc, HR-d**

- **Spacer sleeve DB-abc, DB-d**

- **Rail mounting (Example)**

#### Single terminal bolt: The bolts are fastened with 2 M4 screws. Please observe max. torque: 1.5 Nm.

**Rail mounting:** The bolt is put through the hole in the rail and its base fixed to the rail by means of a split ring.

Mounting of rail is done with the help of spacer sleeves DB-abc or DB-d.

Note: Rails as shown in the diagram are no product of Schaltbau GmbH and must be ordered from commercial suppliers.

**Cable lugs:** Please observe that the cable lugs must be mounted plane on top of each other.

**Bolt size:** Please observe the max. torque for the different bolt sizes as detailed in ’Specifications’.

Subject to change / Dimensions in mm
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
- Snap-action switch made of robust polyetherimide (PEI)
- Snap-action switch with two galvanically isolated contact bridges
- 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 disconnect 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