

# 3

## Contactors

S134 series

1 pole emergency  
disconnect switches

Catalogue B124.en



More information  
[schaltbau.com](http://schaltbau.com)

## S134 – 1 pole emergency disconnect switches

Schaltbau S134 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).






S134 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 rupt-

ered 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

-  Single pole emergency disconnect switch with snap mechanism
-  Magnetic blowout
-  Two definite maintained positions (ON/OFF)
-  Auxiliary contact available
-  Optional lockable version

### Applikations


Schaltbau emergency disconnect switches are designed for use with battery-powered vehicles such as:

-  Fork lift trucks
-  Reach trucks
-  Pedestrian stacker trucks


### Ordering code

Beispiel: **S134-1-Z0-H11-M8-L1**

|   |  |
|---|--|
| <p><b>Series</b></p> <p>S134-1 S134 single pole</p> <p><b>Version</b></p> <p>Z0 no lock cylinder<br/>Z1 lockable version<br/>Z2 complete with lock plate and lock cylinder 51</p> <p><b>Aux. contacts, number and type</b></p> <p>H00 no auxiliary contact<br/>H01 version for aux. contact assembly HK-S134-L1<br/>H11 aux. contact assembly S840<br/>H21 aux. contact assembly S826<br/>H31 aux. contact assembly S870 W1D1 t</p> | <p><b>Housing sizes</b></p> <p>Standard L1<br/>short housing L2</p> <p><b>Main terminals</b></p> <p>Screw-type M8 M8<br/>screw-type M10 M10</p> <p><b>Accessories</b></p> <ul style="list-style-type: none"> <li>• Aux. contact assembly S826 HK-S134-L1*</li> <li>• Lock cylinder 51 ZHS 4A251**</li> <li>• Lock plate ZP-S13x**</li> </ul> |
|---|--|

 This catalogue shows only stock items. For some variants minimum quantities apply. Please ask for the conditions.

**Special variant:** If you need a special variant of the switch, please do not hesitate to contact us. Maybe the type of switch you are looking for is among our many special designs. If not, we can also supply customized designs. In this case minimum quantities apply..

 \* Retrofitting only possible with version for auxiliary contact assembly, e.g. S134-1-Z0-H01-M8-L1.

\*\* Retrofitting only possible with lockable version, e.g. S134-1-Z1-H00-M8-L1. With it, you can order lock cylinder 51 (ZHS 4A251) and lock plate (ZP-S13x) as accessories at any time later.

### Circuit diagram

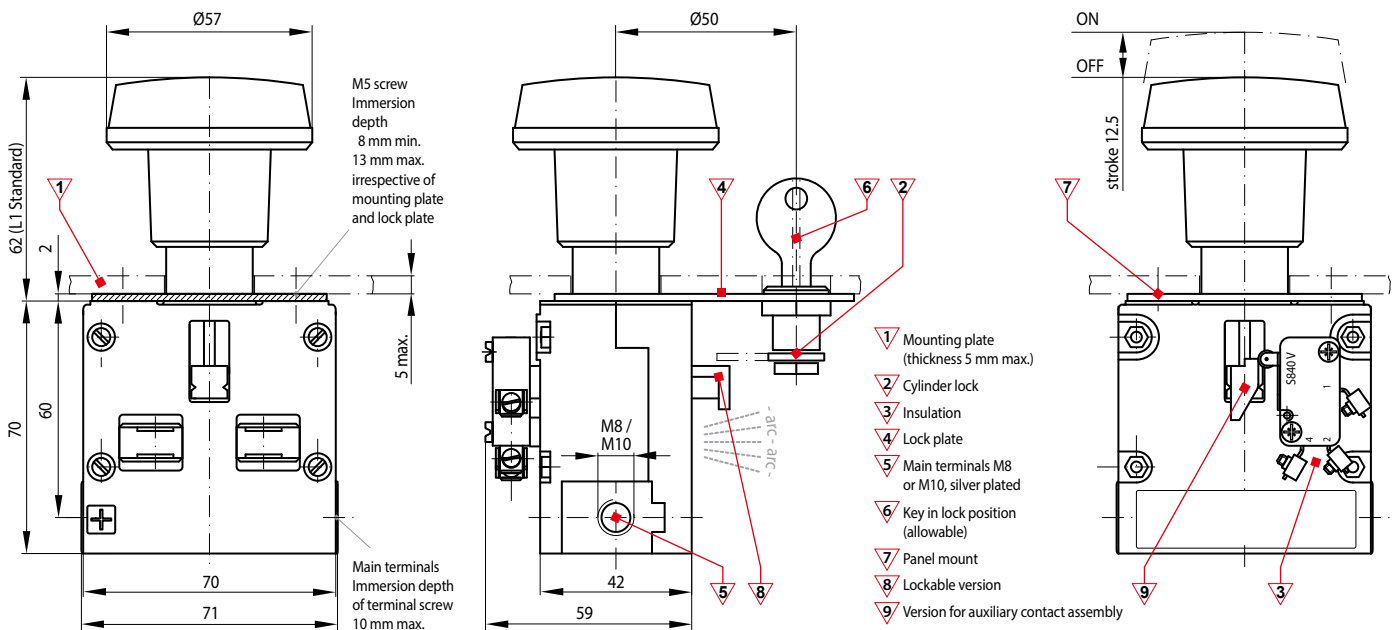


### Specifications

|                                       |   |  |
|---------------------------------------|---|--|
| <b>Series</b>                         | S134  |  |
| <b>Type of voltage</b>                | DC  |  |
| <b>Main contacts, configuration</b>   | 1x, NC  |  |
| <b>Main contacts</b>                  |   |  |
| Nominal voltage                       | $U_n$   | 100 V  |
| Rated insulation voltage              | $U_i$   | 160 V  |
| Rated impulse withstand voltage       | $U_{imp}$   | 4 kV @ PD3   |
| Conventional free air thermal current | $I_{th}$  | 250 A  |
| Permissible inrush current            |   | 1,500 A  |
| Rated operational current $I_e$       | 24 V DC, L/R=15 ms  | 300 A  |
|                                       | 80 V DC, L/R=15 ms  | 250 A  |
| Breaking capacity                     | 24 V DC, L/R=15 ms  | 1,200 A  |
|                                       | 80 V DC, L/R=15 ms  | 1,000 A  |
| <b>Auxiliary contact</b>              | Snap-action switch S840<br>Snap-action switch S826<br>Snap-action switch S870 | SPDT, $I_{th} = 6$ A<br>SPDT, $I_{th} = 10$ A<br>SPDT, $I_{th} = 10$ A |
| <b>Mechanical endurance</b>           |   | 30,000 operations  |
| <b>Mounting position</b>              |   | horizontal, vertical   |
| <b>Terminals, tightening torque</b>   | Screws  | M8, 6 Nm max. / M10, 10 Nm max.  |
| <b>Temperature range</b>              |   | -25 °C ... +50 °C  |



### Dimension diagrams

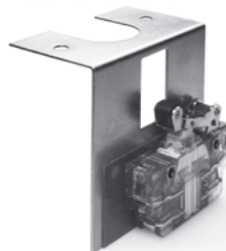


### Accessories

#### Lock plate with lock cylinder 51

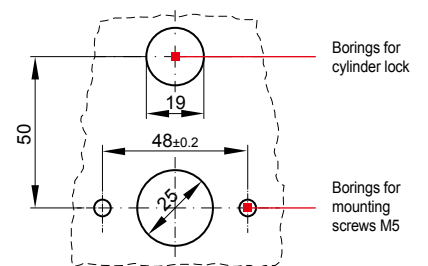


#### Aux. contact assembly HK-S134-L1



### Mounting

#### Cutout



**i** Retrofitting only possible with lockable version, e.g. S134-1-Z1-H00-M8-L1, refer to ordering code.

**i** Retrofitting only possible with version for auxiliary contact assembly, e.g. S134-1-Z0-H01-M8-L1, refer to ordering code.

**i** Tightening torque:  
 • Main terminals (5): M8 / M10: 12 Nm max.  
 • Panel mounting (7): M5: 3 Nm max.

Unscrew the red switching knob for assembly. A hole through the socket and shaft serves as a counterhold, into which a pin with  $\varnothing 3$  mm is inserted.

# Schaltbau GmbH

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## 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
- Snap-action switch made of robust polyetherimide (PEI)
- Snap-action switch with two galvanically isolated contact bridges
- Special switches to suit customer requirements

### Contactors Emergency disconnect switches

- 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