CAUTION
Increased device internal voltage in devices for 120 V AC line voltage
Devices that connect to a line voltage of 120 V AC have an internal transformer to generate the device internal voltage of 240 V AC required.
• The live parts in the device thus have a voltage of 240 V AC.

NOTICE
Damage to the device due to incorrect line voltage
Incorrect line voltage may destroy the device.
• Pay attention to the correct line voltage in accordance with the name plate when connecting the device!

Observe the following points when connecting the power supply:
• The requirements of VDE 0100 as well as their relevant standards and regulations must be observed when installing high-voltage systems with nominal voltages of up to 1000 V!
• A circuit breaker with a maximum rated current of 10 A must be installed in the power supply connection lead.
• A mains separator (main switch) must be installed in the power supply connection lead.

Electrical connection
The terminals are located behind the front plate of the SCC-C housing.
1. Remove the front plate of the SCC-C housing.
2. Connect the power supply:
   Pull a suitable cable* through a cable gland in the cover of the cooler and connect to terminal –X1 in accordance with the electrical connection.
3. Connect status messages:
   Pull a suitable cable (outer diameter between 8.3 and 9.1 mm) through a cable gland in the cover of the cooler and connect to terminal –X3 in accordance with the electrical connection.
4. Reattach the front plate of the SCC-C housing.

* The cable must meet the following minimum requirements: Outer cable diameter 8.3 - 9.1 mm, cross-section: 1.04 mm² (17/3 AWG), nominal voltage: 300 V, temperature resistance 60 °C, flammability class in accordance with VW-1, FT2 or EN60332-1-2/-2-2
CAUTION
Increased device internal voltage in devices for 120 V AC line voltage
 Devices that connect to a line voltage of 120 V AC have an internal transformer to generate the device internal voltage of 240 V AC required.
• The live parts in the device thus have a voltage of 240 V AC.

NOTICE
Damage to the device due to incorrect line voltage
Incorrect line voltage may destroy the device.
• Pay attention to the correct line voltage in accordance with the name plate when connecting the device!

Observe the following points when connecting the power supply:
• The requirements of VDE 0100 as well as their relevant standards and regulations must be observed when installing high-voltage systems with nominal voltages of up to 1000 V!
• A circuit breaker with a maximum rated current of 10 A must be installed in the power supply connection lead.
• A mains separator (main switch) must be installed in the power supply connection lead.

Connectors and terminals

Figure 2: Terminals SCC-F without I/O card

Figure 3: Terminals SCC-F with I/O card

Connector strip –X1 for power supply

<table>
<thead>
<tr>
<th>Terminal</th>
<th>Function/comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (L)</td>
<td>Phase</td>
</tr>
<tr>
<td>2 (N)</td>
<td>Neutral conductor</td>
</tr>
<tr>
<td>3 (PE)</td>
<td>Protective earth (PE)</td>
</tr>
</tbody>
</table>

Note
The safety instructions and the circuit diagram in the operating instruction 42/23-51 must be observed for electrical connections. The operating instruction 42/23-51 is available to download at the following link / QR code:

ABB Library - 42/23-51
**Electrical connection**

The terminals are located behind the front plate of the SCC-F housing.

1. Remove the front plate of the SCC-F housing.
2. Connect the power supply:
   - Pull a suitable cable* through a cable gland in the cover of the sample gas feed unit and connect to connector strip –X1 in accordance with the electrical connection.
3. Connect status messages:
   - Pull a suitable cable (outer diameter between 8.3 and 9.1 mm) through a cable gland in the cover of the cooler and connect to terminal –X3 or –X16 in accordance with the electrical connection
4. Reattach the front plate of the SCC-F housing.

* The cable must meet the following minimum requirements: Outer cable diameter 8.3 - 9.1 mm, cross-section: 1.04 mm² (17/3 AWG), nominal voltage: 300 V, temperature resistance 60 °C, flammability class in accordance with VW-1, FT2 or EN60332-1-2/-2-2