2 Power supply

Information
The charging station is set to 10 A in the delivery state. In order to adapt the maximum current to the installed line circuit breaker, a configuration via the DIP switch settings is necessary. For details, see DIP switch settings.

The power supply (supply line) must be hardwired to an existing domestic installation and comply with the applicable national regulations.

Selection of RCD / fault-current circuit breaker
- Each charging station must be connected via a separate RCD (Residual Current Device / fault-current circuit breaker). No other consumers may be connected to this circuit.
- An RCD with at least Type A must be used since all EVLunic variants have an internal DC fault current monitoring ≥ 6 mA.
- During installation, other important issues such as “cascading” of RCD and selection of a suitable line circuit breaker must be considered.

Dimensioning of the line circuit breaker
The nominal current must be determined in accordance with the type plate data in coordination with the desired charging power (DIP switch settings for charging current specification) and the supply line.

\[ I_{\text{DIP switch}} \leq I_{\text{circuit breaker}} \leq I_{\text{supply line}} \leq I_{\text{nominal current}} \]

4 Prepare cable insertion
Place the charging station on a stable surface.

1) Using a hammer and flat-head screwdriver, gently knock out the required cable insertion openings.
- Surface-mounting cable insertion: Cable insertion openings on the top side
- Flush-mounting cable insertion: Cable insertion openings on the back side

2) Insert the cable glands (surface-mounted cable insertion) or double-membrane seals (flush-mounted cable insertion) into the corresponding cable insertion openings.

5 Mount charging station

NOTICE!
Property damage due to moisture!
Only a vertical installation of the charging station is permitted. The charging station must be mounted with the supplied washers at a 90° angle to the mounting surface – no inclination is allowed, otherwise water drainage will not be possible and damage to the device will result.

1 Safety notes
The safety instructions for the installation and commissioning of the charging station in the supplied manuals must be read prior to installation or commissioning and must be observed.

Not observing the safety instructions can result in risk of death, injuries and damage to the device!

The device manufacturer assumes no liability for resulting claims!

WARNING!
Danger due to electric shock and fire hazard!
- Installation, commissioning, maintenance or retrofitting of the charging station must be performed by correctly trained, qualified and authorized electricians who are fully responsible for the compliance with existing standards and installation regulations.
- On the right-hand side of the connection area (X1–X4: Ethernet connections as well as terminals for enable input and switch contact output) only voltages and circuits are permitted to be connected which have a safe separation to dangerous voltages (for example sufficient insulation.

3 Dismount covers

1) Unscrew the two screws on the bottom side of the housing cover.

2) Lift the housing cover at bottom max. 1 cm and then push upwards.

3) Loosen the four screws of the connection panel cover and remove the connection panel cover upwards.

4) Loosen the two screws of the terminal cover and remove the terminal cover upwards.

6 Connect voltage supply
The charging station can be connected in the following ways:
- 1-phase: via terminals L1, N and PE
- 3-phase: via terminals L1, L2, L3, N and PE

The supply terminals are designed as spring-type terminals. The handling instructions enclosed in the terminal area must be observed.

The supply line must be sufficiently inserted into the cable gland or the double-membrane seals so that the cable sheath is visible in the connection area.

1) Shorten the connection wires to the appropriate length (as short as possible). The protective conductor must be longer than the other conductors!

2) Strip the connection wires to approx. 12 mm. For stranded wires with fine wires, use wire end sleeves.

3) Insert the flat-head screwdriver (5.5 mm) into the supply terminal as shown. The screwdriver must rest on the housing.

4) Pull the cable through the prepared openings on the charging station. Pay attention to leak tightness!

5) Of the supplied washers can be used to compensate for any unevenness and to ensure proper water flow behind the device: If necessary, place the washers on the hanger bolts.

6) Position the charging station on the wall and secure it with the 4 washers and nuts to the hanger bolts.
5) Insert connection wire into the designated terminal opening.

6) Pull out the screwdriver straight.

7) DIP switch settings

- **DSW1 DIP switch**
- **DSW2 DIP switch**
- **T1 Service button**

Information

Changes to the DIP switch settings only become effective after a restart of the charging station! To restart, press the “Service button” until the first beep (approx. 1 second).

ON/OFF position of the rocker switches

The illustration shows the position of the rocker switches for the setting ON and OFF.

Adjust current - DSW1.6 to DSW1.8

Only a maximum value, which is smaller or equal to the operating current according to the type plate, can be set with the DIP switches.

8) Commissioning

1) Reset all DIP switch positions to their default setting.

2) Restart the charging station by pressing the “Service button” until the first beep (approx. 1 second).

3) Set DIP switch DSW2.8 to ON. Restart the charging station by pressing the “Service button” until the first beep (approx. 1 second).

4) Put the charging station into the commissioning mode and perform the required initial testing.

Commissioning mode

The charging station can be put into a special commissioning mode to help facilitate the system inspection. The device carries out an extended self-test (interlocking, ... testing in this mode, even without a vehicle being plugged in. The charging socket is locked to prevent a cable from being plugged into it. A normal charging procedure is not possible in commissioning mode.

Information

For safety reasons, the commissioning mode is indicated on the charging station by an orange display on segment S3 of the LED bar (-/-/orange/-).

Activate commissioning mode

1) Set DIP switch DSW2.8 to ON.

2) Restart the charging station by pressing the “Service button” until the first beep (approx. 1 second).

3) Set DIP switch DSW2.8 to OFF.

4) Restart the charging station by pressing the “Service button” until the first beep (approx. 1 second).

The charging station starts again in normal mode and is ready for operation.

Deactivate commissioning mode

In order to operate the charging station correctly, all covers must be inserted and screwed tight. If necessary, a seal can be attached.

1) Insert terminal cover and tighten with 2 screws. If necessary, the right upper screw can be provided with the supplied sealing cap (see Seal).

2) Insert connection panel cover and tighten with 4 screws with 2 Nm. The tabs on the connection panel cover must be flush with the enclosing housing. Only then will the device be properly sealed. If necessary, the right upper screw can be provided with the supplied sealing cap (see Seal).

3) Hook in the housing cover at the top and close it at the bottom. The housing cover must glide into the guides without considerable resistance. The housing cover must be correctly seated in the housing guide on all sides.

4) Secure the housing cover with 2 screws at the bottom.

9) Mount covers

In order to operate the charging station correctly, all covers must be inserted and screwed tight. If necessary, a seal can be attached.

1) Insert terminal cover and tighten with 2 screws. If necessary, the right upper screw can be provided with the supplied sealing cap (see Seal).

2) Insert connection panel cover and tighten with 4 screws with 2 Nm. The tabs on the connection panel cover must be flush with the enclosing housing. Only then will the device be properly sealed. If necessary, the right upper screw can be provided with the supplied sealing cap (see Seal).

3) Hook in the housing cover at the top and close it at the bottom. The housing cover must glide into the guides without considerable resistance. The housing cover must be correctly seated in the housing guide on all sides.

4) Secure the housing cover with 2 screws at the bottom.

10) Seal

Included with the charging station (except EVLunic B) are devices for sealing the terminal cover and the connection panel cover. They can be used to prevent or identify tampering attempts by unauthorized persons at charging stations with preconfiguration or special suitability (MID calibration validity).

1) Loosen the right upper screw of the cover to be sealed.

2) Insert the screw into the sealing cap.

3) Screw the screw with the sealing cap back into the cover.

4) Close the cover of the sealing cap.

5) Thread the sealing wire through the opening of the sealing cap over the screw and place the seal.

Information

For safety reasons, the commissioning mode is indicated on the charging station by an orange display on segment S3 of the LED bar (-/-/orange/-).