Evåka Home Pro

EN Installer's Manual



Table of Contents

2. About this document....3
3. Special symbols for warnings and dangers....4
4. Required Tools and Materials....5
5. Box Contents....6
6. Safety Information....7-8
7. Technical Specifications....8-9
8. Pre-Installation Guidelines....11
8.1. Site Preparation....12
8.2. Charging station preparation....13-14
8.3. Mounting the Charging Station....15
8.4. Electrical Wiring Instructions....16
8.5. Current rating switch adjustment....17
8.6. Final Assembly....18
9. LED Indicators and Their Meanings....19
10. Maintenance Guidelines....20
11. Warranty Information....21
12. Additional Information....22
13. Disclaimer and Copyright Notice....23
Empty Page For Notes....24-26
Download manual In Other Languages....27

2. About this document



Read Documentation:

Thoroughly review the documentation accompanying the charging station to fully understand all safety instructions and guidelines prior to operation. Keep them for future reference.

Follow the instructions outlined in this manual and adhere to local regulations. In the event of any inconsistency or contradiction between the requirements in this document and local rules, follow the stricter of the two.

Function of this document:

The document applies exclusively to this electric vehicle supply equipment (EVSE) model EVÅKA Home Pro and its variants:
11kW; 22kW; Or for any other limited or special editions;
Optional connectivity variants: Built-in eSIM LTE; No LTE.

Target group:

This document is intended for licensed electrician or licensed installer.

The purpose of this document is to provide the information necessary to safely perform these tasks:

1. Install the EVÅKA Charging station .
2. Carry out maintenance task.

Introduction:

EVAKA Home Pro (including the variants) is an alternating current charging station designed to supply power to electric vehicles. It provides customized and intelligent charging solutions ideal for your home. It supports internet connectivity through (Optional) LTE or Wi-Fi.

Illustrations:

Please note that the illustrations provided in this manual are for informational purposes only. They are intended to help you understand the product's features and usage but may differ from the actual product. Variations in design, color, or components might occur due to updates or changes made by the manufacturer. Always refer to the actual product for accurate details.

Language:

This document is provided in English (EN-US). All versions in other languages are translations of the original English (EN-US) document.

Units of measurement:

In this document, units of measurement are presented in the metric system.

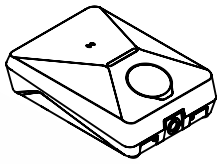
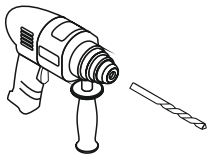
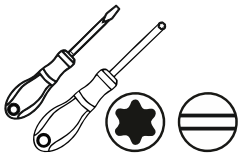
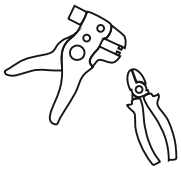
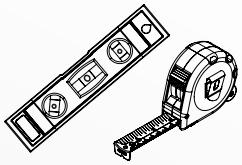
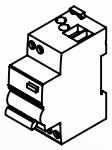
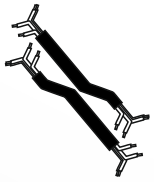
3. Special symbols for warnings and dangers

General signs and signal words:
In this manual, various signs and signal words are used to indicate important information related to safety, procedures, and equipment use. Understanding these symbols and terms is essential for ensuring safe operation and preventing damage or injury.

	Signal words are used to convey the level of hazard associated with a task or situation. These include: · General risk. · With the signal word 'Caution': Failure to follow these instructions may result in damage to the EVSE or property. · With the signal word 'Warning': Failure to follow these instructions may lead to injury. · With the signal word 'Danger': Failure to follow these instructions may result in serious injury or death.
	Hazardous voltage presenting a risk of electrocution.
	Qualified Personnel Only. Installation must be carried out by a licensed electrician with thorough knowledge of local electrical codes and regulations.
	This symbol indicates that you must read the manual before use or installing the EVÅKA Home Pro.
	These symbols relate to environmental practices, such as proper disposal of electrical and electronic waste to ensure compliance with recycling regulations and environmental protection guidelines.
	Protective Earth (PE).
	PPE - (Personal protective equipment).

4. Required Tools and Materials

The installation of the EVÅKA Home PRO Charging Station requires the following tools and materials:

			
EVÅKA Home Pro Charging Station and Accessories	Drill with Masonry Bit	Torx 15 Screwdriver and 2mm Flathead Screwdriver	Wire Strippers and Cutters
			
A spirit level and Measuring tape	Type A RCBO or RCD with MCB	Electrical Wiring	PPE (Personal protective equipment)

Tools:

1. **Drill and Masonry Bits:** For drilling mounting holes, especially in concrete or brick surfaces. Choose the appropriate drill bit based on the type of installation surface.
2. **TX15 Screwdriver:** Used for securing screws during the installation process.
3. **2mm Flathead Screwdriver:** Used for adjusting the rotary switch.
4. **Wire Strippers and Cutters:** Essential for preparing and managing electrical wires safely.
5. **Spirit Level**: Used to ensure that the charging station is mounted horizontally and vertically level for proper operation and aesthetic alignment.
6. **Measuring Tape:** For accurate placement and alignment on the installation site.
7. **PPE**: Personal protective equipment. Requirements for PPE according to regulation and local laws for working with electricity.

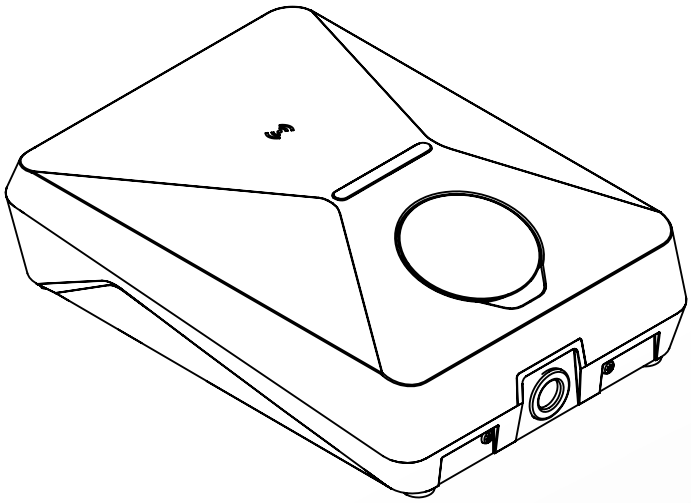
Required materials:

1. **Electrical Wiring:** Ensure that the wiring complies with your local electrical code requirements for proper installation and safety.
2. **Type A RCBO or RCD with MCB:** 30mA AC residual current protection.

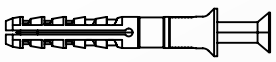
Note:

- Gather all necessary tools and materials before starting the installation to ensure a smooth and efficient setup process.

5. Box Contents



Accessories:

			
Rubber Grommet x1	Nylon Wall Plugs (Anchors) and Screws x4	RFID Reset Card x1	RFID Key x1

The following items are included in the EVÅKA Home Pro Charging Station package:

1. EVÅKA Home Pro Charging Station x1
2. Rubber Grommetx1
3. Nylon Wall Plugs (Anchors) and Screws x4
4. RFID Reset Card x1
5. RFID Key x1
6. Quick Guide x1
7. Drill template x1

Note:

- One rubber grommet and a cable clamp with two screws are pre-installed on the back cover of the charging station.
- Before beginning the installation, please verify that all components are present.
- This manual, along with the user manual, is available on our website and can be downloaded at: www.evaka.se/downloads.

6. Safety Information

Installation and safety warnings:



DANGER! RISK OF ELECTRIC SHOCK OR LETHAL INJURIES. IMPROPER USE OR INSTALLATION CAN CAUSE FIRE OR ELECTRIC SHOCK.



IMPORTANT! The EVÅKA charging station must be connected to a permanent wiring system for grounding.

Qualified Personnel Only:



Installation must be performed by a licensed electrician or a licensed installer who possesses a comprehensive understanding of local electrical codes and regulations. Qualified electrician/installer should fallow the instructions outlined in EVÅKA Home Pro Installer guide and adhere to local regulations. In the event of any inconsistency or contradiction between the requirements in this document and local rules, follow the stricter of the two. Always follow the manufacturer's instructions and use the charger only for charging electric vehicles (EVs) compatible with Mode 3 charging standards.

This manual, along with the user guides, is available on our website and can be downloaded at: www.evaka.se/downloads.

Safety:

- The charging station shall be installed according to local regulations for low voltage electrical installations.
- The product is designed and tested according to IEC EN61851 standard for electric vehicle conductive charging systems. The charging station is equipped with a residual current detection device to safely break the circuit in the event of a 6mA DC leakage in accordance with IEC 62955.

Safety Guidelines for Installers: Refer to the User Manual:

As an installer, it is essential to inform the user about the importance of following the Safety Guidelines outlined in the EVÅKA charging station user manual for safe and efficient use of the charging station. These guidelines are critical to preventing hazards and ensuring the charging station operates as intended.

Key points to emphasize:

- Follow Manual Instructions: Operate the charger as outlined in the user manual.
- Inspect Regularly: Check for damage or wear.
- Socket Safely: Avoid inserting foreign objects in to the socket or touching terminals.
- Proper Maintenance: Follow the manual's cleaning and maintenance instructions.

By ensuring that the user understands and follows the Safety Guidelines from the user manual, you help safeguard their safety and the longevity of the charging station.



DANGER! RISK OF ELECTRIC SHOCK OR LETHAL INJURIES.
IMPROPER USE OR INSTALLATION CAN CAUSE FIRE OR ELECTRIC SHOCK.

Installers safety precautions:

1. **Personal Protective Equipment (PPE):** Always wear appropriate personal protective equipment (PPE), including gloves, safety glasses, and insulated tools.
2. **Environment:** Evåka Charging stations are suitable for both indoor and outdoor use; however, manufacturer recommends to protect the installation site from heavy rain and direct sunlight.
3. **Turn Off Power:** Turn off the input power at the circuit breaker before installing, configuring, or cleaning the charging station.
4. **Check for Defects:** Do not install a charging station that shows any defects or irregularities.
5. **No User-Serviceable Parts:** The charging station is not designed with any internal components that can be serviced by the user.
6. **Unauthorized Modifications**: Do not disassemble or attempt to repair the charger yourself, as it may lead to malfunctions or safety hazards..
7. **Cover Secure During Installation:** Ensure the cover is properly secured before operating the charging station.
8. **Flammable Materials:** Ensure that explosive or highly flammable substances are kept at a safe distance from the charging station installation site.
9. **Water Safety:** Avoid directing strong jets of water at the charging station, and refrain from operating it with wet hands.
10. **Risk Awareness for Installers:** Individuals who cannot recognize potential installation hazards should avoid installing the charging station.
11. **Incorrect Installation Risks:** Any incorrect installation or maintenance can cause fire, serious injury, or device damage.

Emergency switch-off



Turn off the input power at the circuit breaker to switch-off the charging station in the event of emergency.

7. Technical Specifications

General:

Product Dimensions (mm):	287 x 205 x 100 mm (H x W x D)
Operating Temperature:	-30 °C to +50 °C
Package Weight:	2.4 kg
Product Weight:	1.82 kg
Storage temperature:	+5°C to +40°C
Storage Conditions:	Store in a dry environment
Warranty:	2 Years (May Differ in Certain Regions)
Ingress Protection Rating:	IP54
Impact Resistance Rating:	Ik10

Charging:

Charging Power:	Up to 7.4 kW at 32 A (1 Phase) Up to 22 kW at 32 A (3 Phase)
Charging Current	6 A – 32 A
Connection Point:	Type 2 Socket (IEC 62196-2)
Number of Phases:	1 or 3
Mains Frequency:	50 Hz
Voltage:	3 x 230V AC / 400V AC (±10%)
Built-In Energy Meter Accuracy:	±2 %
Load Balancing:	Static and Dynamic

Protection Devices:

Residual Direct Current Detecting Device (RDC-DD) 6mA DC
Overheat Protection
Current Sensors for Overcurrent Protection
Under Voltage and Over Voltage Protection
PE (Protective Earth) - Ground Fault Detection

Connectivity:

Built-in eSIM: 2G/4G LTE
Wi-Fi: 2.4 GHz b/g/n connection
Charging Control: Via Mobile Application
RFID/NFC Reader
OCPP 1.6J

8. Pre-Installation Guidelines

Before starting the installation of the EVÅKA Home Pro Charging Station, ensure the following steps are completed:

1. **Verify Power Supply:** Confirm that the site has the necessary electrical capacity for the chosen charging configuration (1-phase or 3-phase).
2. **Check Circuit Breaker:** Select the appropriate Type A RCBO or RCD with MCB. Ensure accurate calculation of the short-circuit current and implement a short-circuit-proof installation method.
3. **Location:** Choose an installation site that is near the vehicle's parking space, within reach of the charging cable, and protected from direct exposure to harsh weather conditions.
4. **Compliance:** Ensure the installation adheres to local electrical codes and regulations.



Safety Reminder:
Before proceeding with the installation, please wear appropriate personal protective equipment (PPE), such as gloves and safety glasses, to ensure your safety.

8.1. Site Preparation

WARNING! ALWAYS CHECK THE DRILLING SITE FOR CABLES AND UTILITIES BEFORE DRILLING.

Site Preparation:
Before installing the EVÅKA Charging Station, it's essential to prepare the site properly. This ensures a stable, secure installation and smooth operation. Follow the steps below to choose a suitable location and prepare the mounting surface.

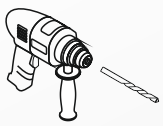
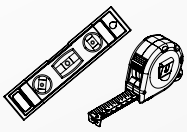
1. **Choose a Mounting Location:** Select a sturdy surface, such as a concrete or brick wall, that can support the weight of the charging station. Alternatively, it can be mounted on a stand.

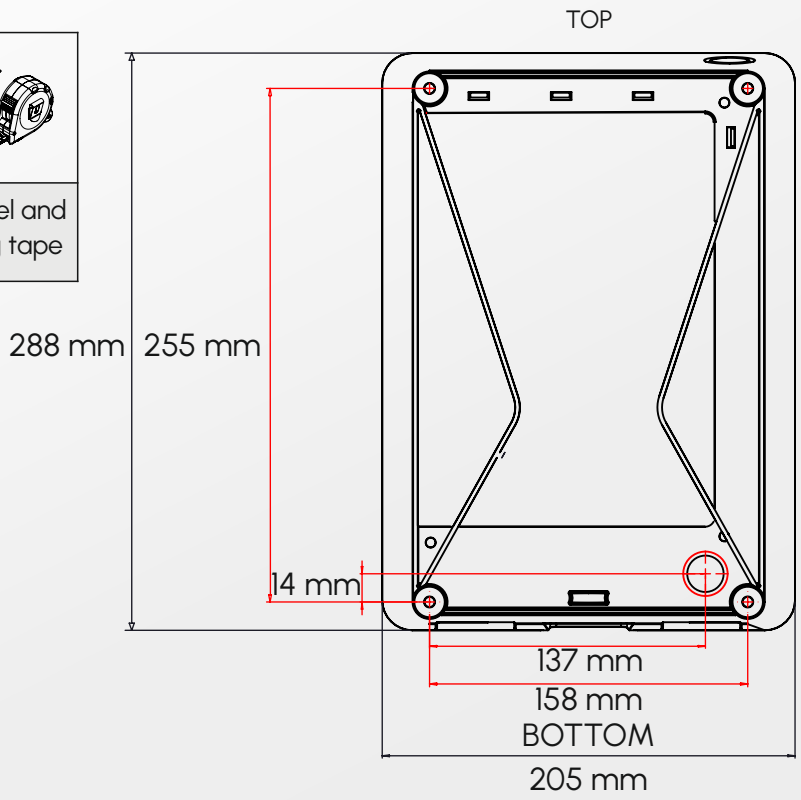
2. **Mark Drill Holes:** Mark four drill holes spaced 255 mm vertically and 158 mm horizontally (H x W). A drill template can be downloaded from www.evaka.se/downloads and printed on A3 paper. Ensure the printed measurements match the specified dimensions before drilling, as printer settings may affect accuracy.

3. **Drill Holes:** Use an appropriate drill bit to drill the marked holes. Insert wall anchors if needed. For cable routing, an optional fifth hole can be drilled 14 mm above and 137 mm to the right of the bottom-left hole. The cable pass-through hole on the charging station has a diameter of 22 mm.

Follow these steps carefully to ensure a secure and accurate installation.

Tools required:

	
Drill and masonry bit	A spirit level and Measuring tape

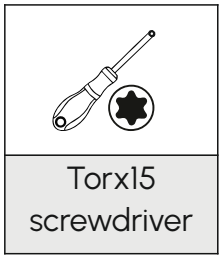


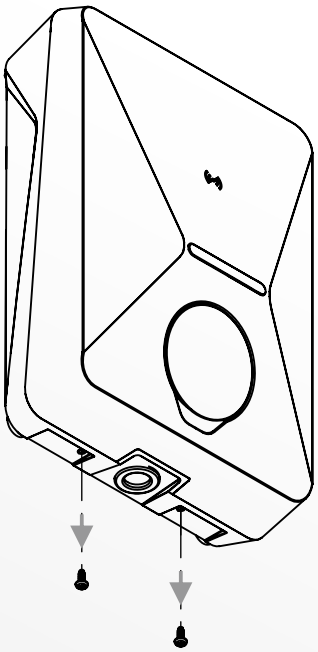
8.2. Charging station preparation

WARNING! This product must only be installed, repaired, or serviced by an authorized electrician. All applicable local, regional, and national regulations for electrical installations must be followed.

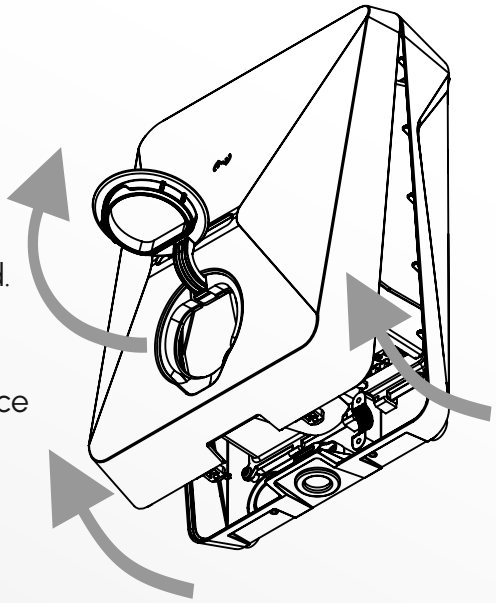
DANGER! Turn off the power before working on any wiring. Use extreme caution and follow the instructions carefully.

Tools required:

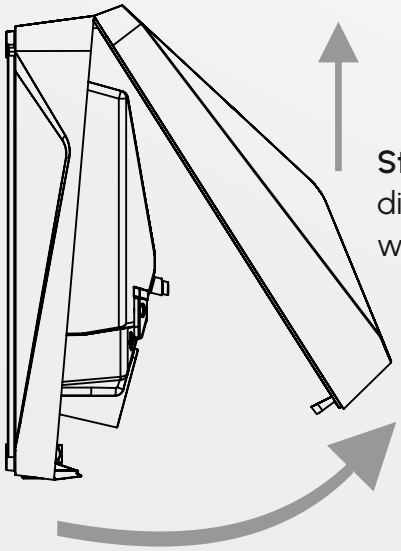




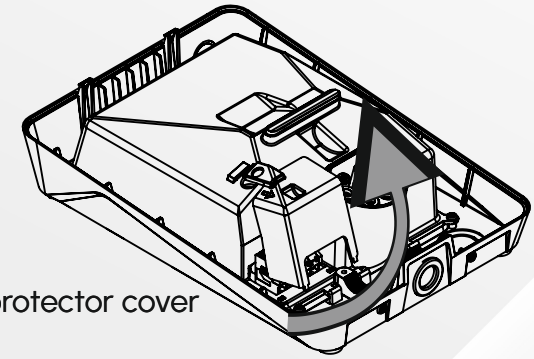
Step 1. Unscrew two Torx T15 screws on the bottom.



Step 2. Open the cap by holding it with one hand. With your other hand, gently pull it upward from the bottom. Since the lid will not interfere with other components, you may release your grip once it is free.

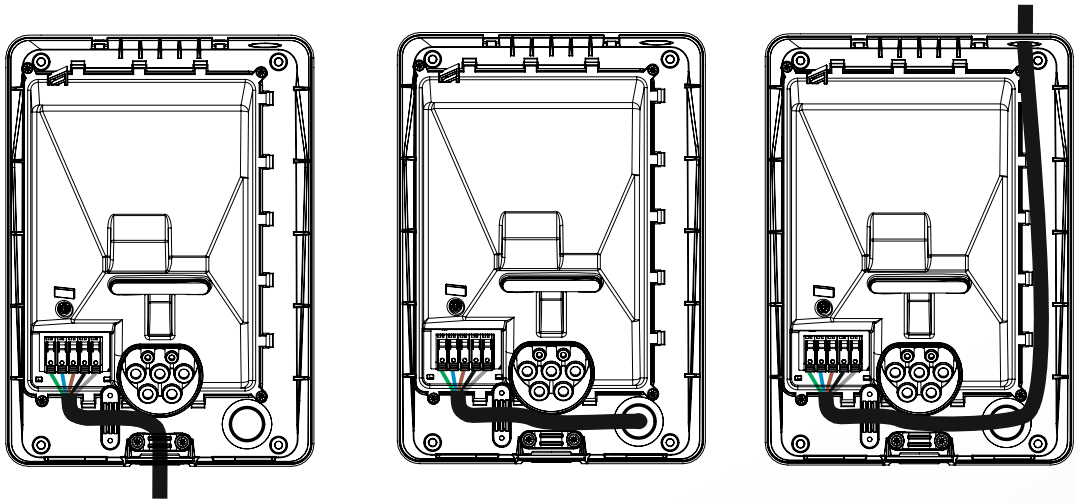


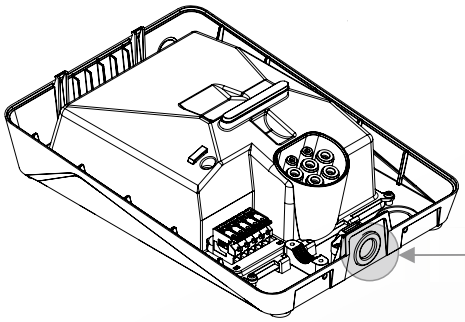
Step 3. Lift the front cover from the hooks in the direction indicated. You can then proceed with the wiring and mounting on the selected surface.



Step 4. Lift contact protector cover from main cover

Cable routing options:

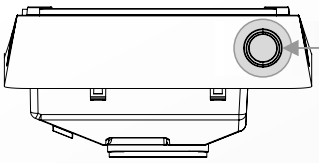


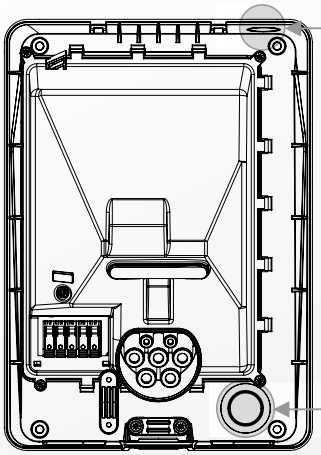


Tools required:



Torx15 screwdriver





Step 1. Puncture the rubber seal to accommodate the cable.
Step 2. Insert the rubber seal into one of the three cable entry holes and thread the cable through.
Secure the cable to the back cover using the provided cable clamp and screws. Tighten the screws to a torque of 1 Nm..
Step 3. Depending on the desired position for the charging station installation, if the cable is routed through entry holes "B" or "C," seal entry hole "A" with the provided rubber grommet.

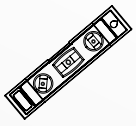
8.3. Mounting the Charging Station

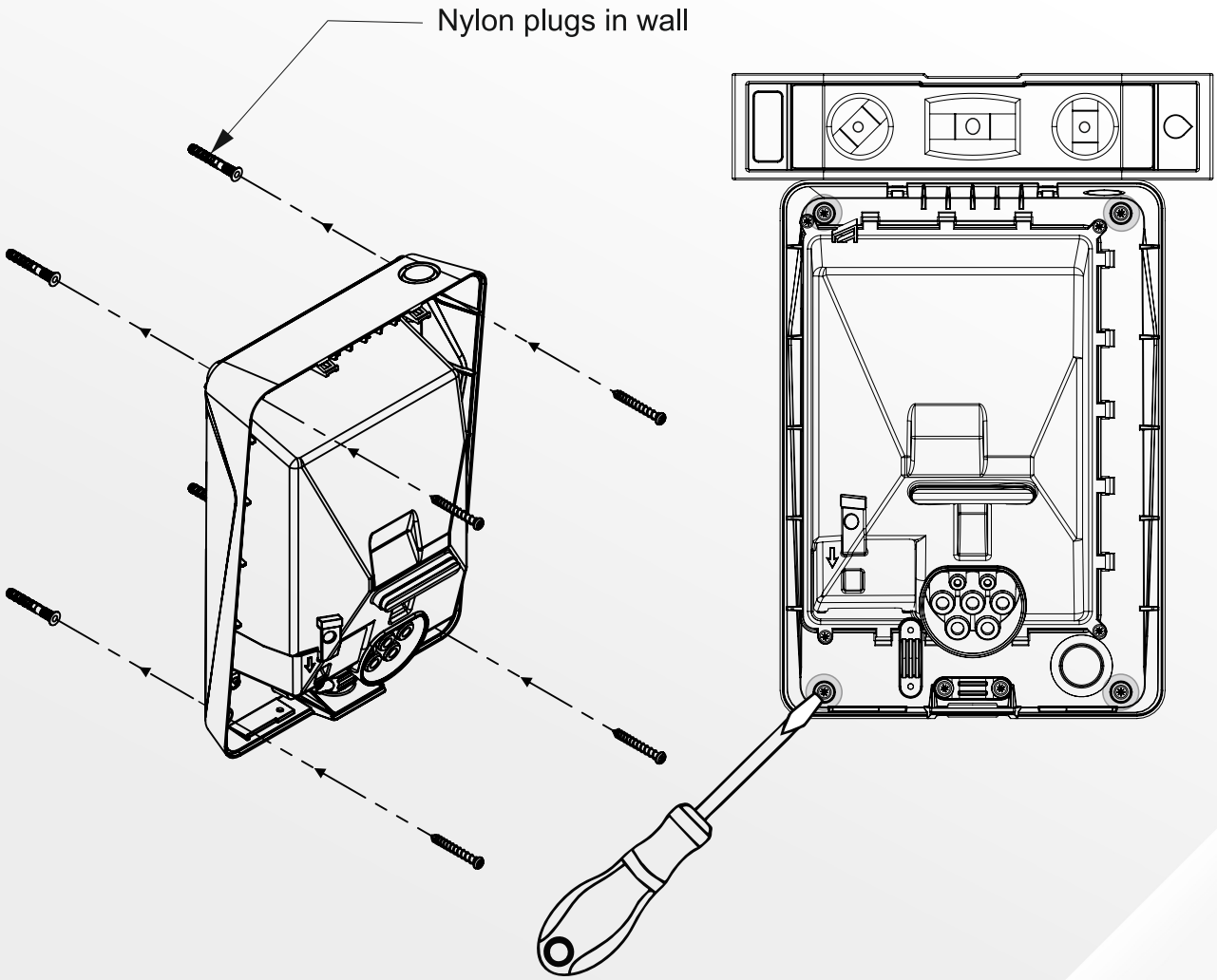
Mounting processes:

1. Position the charging station and use a spirit level for accurate alignment.
2. Secure the charging station to the wall or chosen surface using the provided screws.

Note:
Different wall materials or mounting surfaces may require alternative fasteners.

Tools required:

	
A spirit level	Torx15 screwdriver



8.4. Electrical Wiring Instructions



CAUTION! It is advisable to adhere to the existing color codes used in the installation. Depending on national standards, the colors of the cables may differ from those shown in the illustrations.

CAUTION! Ensure that the conductors are correctly connected before turning on the power for the charging station(s).

Step 1. Strip the cable insulation by 12 mm.. If the cable has flexible conductors, it is recommended to use wire-end ferrule on all wires. Ensure you use the correct tools to secure them.

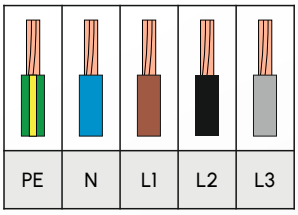
Step 2. Depress the terminal lever to facilitate the insertion of the wire.

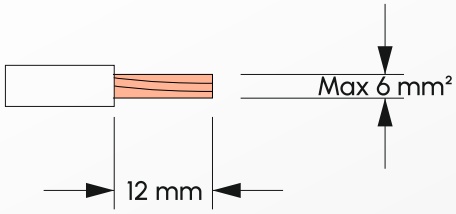
Wiring diagram

Note:

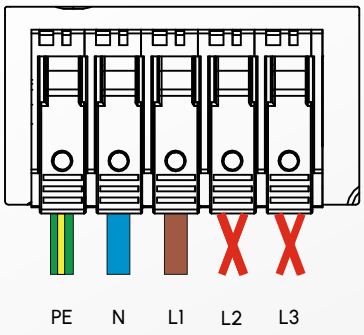
PE - Ground wire. N - Neutral wire. L1; L2; L3; - Phase wire.

Follow the wiring diagram for either the TN/TT or IT network, depending on your local electrical system..

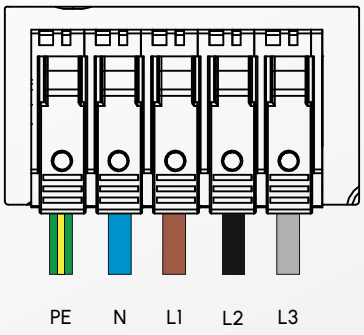




TN 1-phase
(230 V)



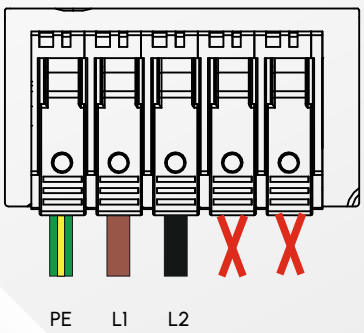
TN 3-phase
(3x400 V)



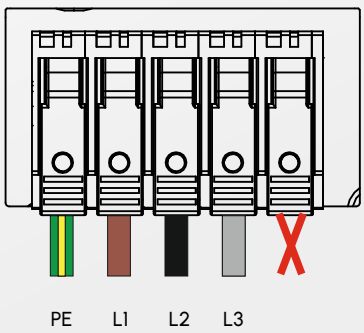
TN/TT Network

The TN network is the most common grid type in Europe, utilizing five conductors to deliver both 230 V and 400 V. This configuration makes it highly efficient, making it the preferred grid type for charging electric vehicles.

IT 1-phase
(230 V)



IT 3-phase
(3x 230 V)



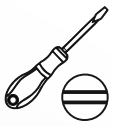
IT network

IT grid systems are primarily used in Norway and Albania, but they can also be found in Belgium, France and Spain. These systems do not have a neutral connector and rely solely on phase conductors, which means they can only provide 230 V.

8.5. Current Rating Switch Adjustment

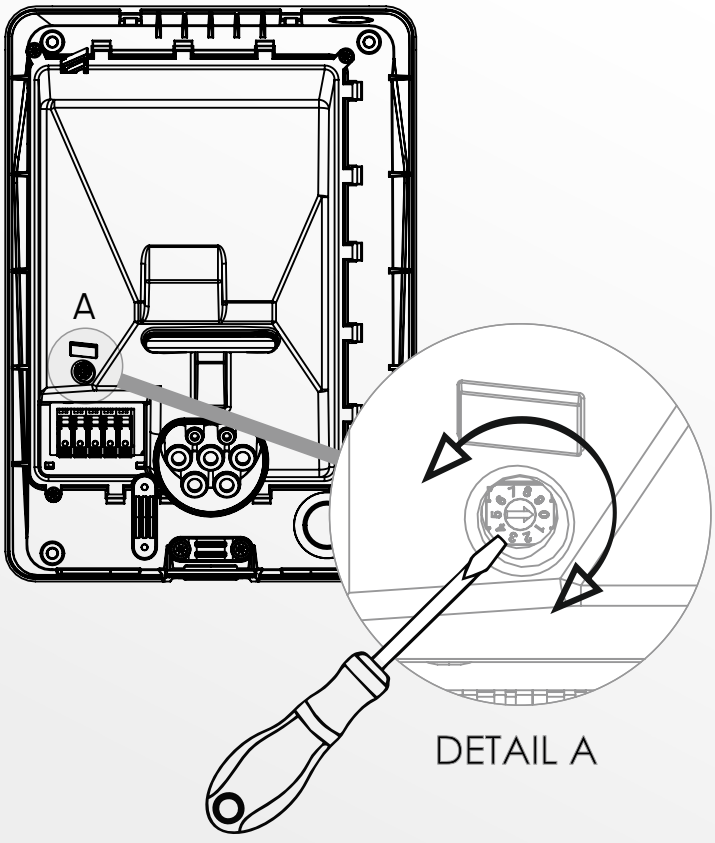
The current derating switch, marked with the letter "A" in the image below, is located above the input connector. Please select a position from 1 to 7 to adjust the maximum charging current. Use a 2mm flathead screwdriver to turn the switch to the desired position.

Tools required:



2mm flathead screwdriver

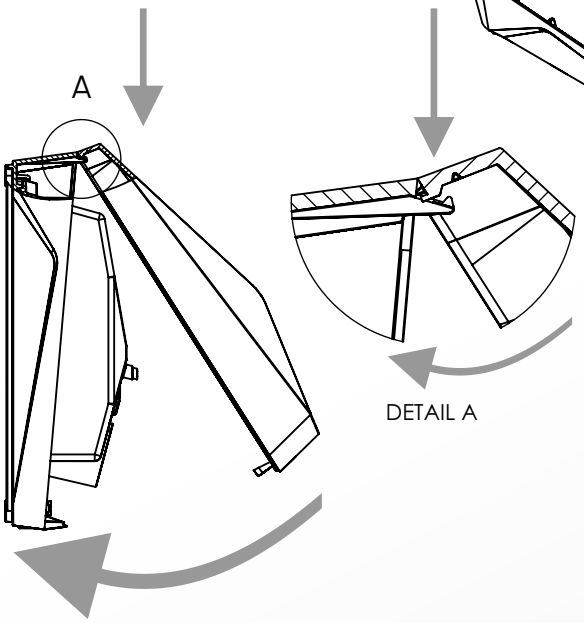
Switch Position	Current Limit
0	Not in use
1	6A
2	10A
3	13A
4	16A
5	20A
6	25A
7	32A
8	Not in use
9	Not in use

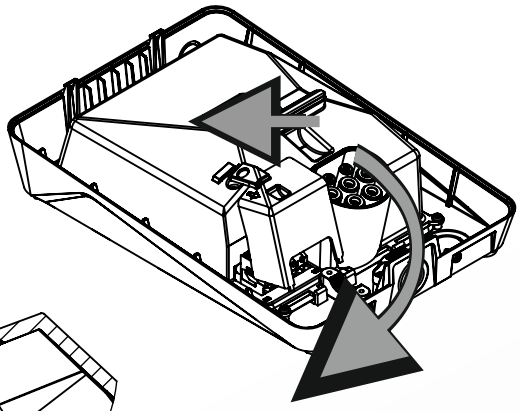


8.6. Final Assembly Steps

CAUTION! Before reinstalling the front cover, gently pull each wire to ensure they are properly connected.

Step 1. Insert the top part of the contact protector cover, then bend down and press until you hear a click.





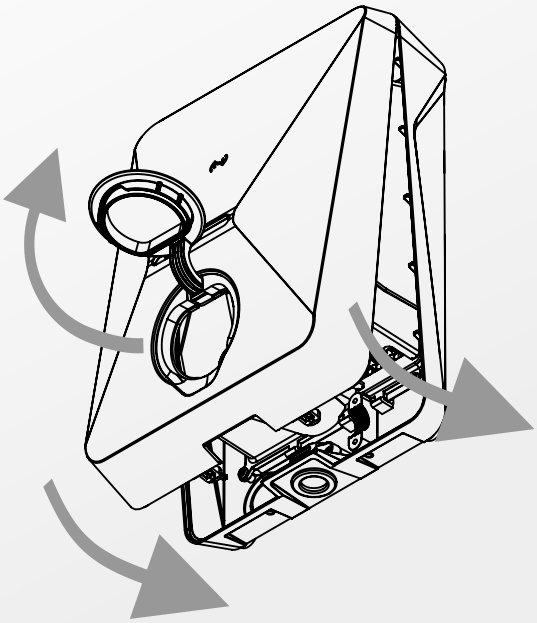
Tools required:

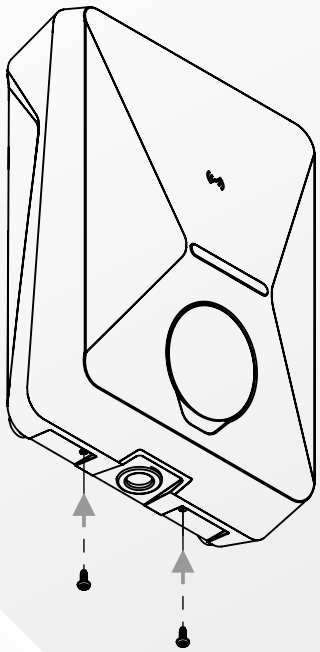


Torx15 screwdriver

Step 2. Hang the top side of the front cover on the rear cover hooks in a similar position as shown in DETAIL A. (We recommend holding the top side of the cover near the hooks with one hand.)

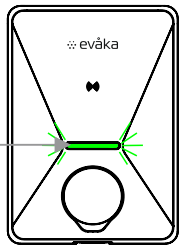
Step 3. Pivot the lower side of the front cover until the back cover and front covers meet. If the lid interferes with closing, open the lid while securing the cover. CAUTION! Ensure there are no gaps or mismatches along the seam.





Step 4. Secure the front cover by screwing in two Torx T15 screws at the bottom. Tighten the screws to 1 Nm.

9. LED Indicators and Their Meanings



Note:
Power on the charging station. It takes 1-2 minutes for the charging station to boot up.

LED Indication	Charging Station Status	Solution
White Blinking	Loading Software	Wait for the solid green light.
Solid Green	Available State	Ready for charging. Insert the cable or plug the cable into the car.
Amber Blinking	Preparing state. Charging paused or waiting for authentication (RFID mode)	Ready for charging. Tap your RFID card or tag. If you have lost your RFID card or tag, use the mobile application.
Amber/Red Blinking	RFID Not Authorized	Use the mobile application to reattach the RFID card or tag to the charger.
Blue pulsating	Charging	No action is needed; you can proceed with charging your electric vehicle.
Red solid	Non-Recoverable Fault	Restart the power for the charging station. If the fault persists please contact installer or support.
Red Blinking	Recoverable Fault	Reconnect the EV charging cable to the charging station, then reconnect it to the car. Contact installer or support team if the issue persists.
Purple Blinking	Firmware Upgrade in Progress	Do not switch off the power! Wait for the solid green light to appear.
LED Doesn't Light Up	No Power	No power to the charging station. Check for faults in the electrical system (tripped fuse, tripped protections, fault in wiring, etc.) or a faulty charging station. Contact your installer or support team for further guidance..
LED not visible	Exposure to direct sunlight	The direct sunlight on to the LED indicator will significantly reduce the visibility of the LED color coded indications.

10. Maintenance Guidelines



Power Off: Always turn off the power supply before performing any maintenance.

As an installer, it's essential to be aware of the maintenance and care requirements of the charging station to ensure long-term, safe, and efficient operation. While the following guidelines are intended for users, you should also familiarize yourself with them to guide customers and ensure proper installation.

Maintenance:

- Inspect the charger regularly to ensure there are no signs of mechanical damage. **During installation, verify that all components are free of defects.**
- Inform the user that they should periodically check the Type 2 socket for signs of wear and tear, in compliance with local regulations. If the pins are discolored or damaged, advise them to contact an authorized electrician immediately for assessment or repairs.

Cleaning:
Explain to the user that the charger does not require cleaning for functionality. However, if cleaning is necessary for cosmetic reasons, instruct them to follow these steps:

1. Turn off the power to the charging station before cleaning.
2. Clean with a damp cloth and a mild all-purpose cleaner. Warn against using strong chemicals containing oil or alcohol, as these could discolor or damage the plastic components.



Warning! Make it clear to users that they should never use running water or high-pressure water jets to clean the charger, as this can cause severe damage and pose safety risks.

By ensuring that users follow these maintenance and cleaning guidelines, you can help guarantee the charger's reliability and longevity.

11. Warranty Information

Thank you for choosing Evåka.

We take pride in our high-quality chargers and appreciate your role in ensuring a successful installation. Your expertise is key to optimal performance and customer satisfaction. If you need any support, please contact us. We're here to assist you throughout the installation for long-lasting functionality.

Warranty Duration:

The warranty is valid for a period of 2 years from the date of purchase. Please note that the warranty duration may differ in certain regions due to local regulations

Warranty Coverage:

Evåka warrants that this device is free from material defects and complies with the consumer protection laws and regulations applicable in the country where the product was purchased or where the consumer resides. This warranty applies to all Evåka hardware installed according to the provided instructions and guidelines..

What is Covered:

- Repair or replacement of the defective charger unit.
- Free online technical support for issues related to the product.

What is Not Covered:

- Damage resulting from improper installation, use, or maintenance.
- Any modifications or repairs carried out by unauthorized personnel.
- Normal wear and tear, cosmetic damage, or any damage caused by accidents, misuse, neglect, or natural disasters.

How to Obtain Service:

If you encounter any issues with your Evåka charger within the warranty period, please follow these steps:

1. Contact Your Supplier: Reach out to your Evåka supplier or authorized dealer with details of the issue, proof of purchase, and the serial number of your charger.
2. Technical Assessment: Your supplier may provide troubleshooting assistance to identify the issue and determine whether it is covered under warranty.
3. Repair or Replacement: If your charger is deemed defective and within the warranty coverage, Evåka will repair or replace the unit at no additional cost.

Keep proof of purchase and follow installation guidelines to maintain warranty validity. Visit www.evaka.se/how-can-we-help for more details.

12. Additional Information

Proper Disposal of the EVSE and Its Components:



Incorrect disposal of the EVSE or its parts can negatively impact the environment and human health due to the presence of potentially hazardous substances. By disposing of this product properly, you contribute to the recycling and reuse of materials, helping to protect the environment.

- Follow local laws and regulations when discarding the charging station, its components, or packaging materials.
- Dispose of electrical and electronic equipment in accordance with the WEEE Directive (2012/19/EU) on waste electrical and electronic equipment.
- At the end of products use, take the charging station to your local waste collection point for recycling.
- For further information, consult your country's government waste disposal authority.

Standards:

Artilux NMF UAB declares that product EVÅKA Home Pro and its variants is in compliance with Low Voltage directive 2014/35/EU, Radio Equipment Directive 2014/53/EU, EMC Directive 2014/30/EU. The full text of the EU Declaration of Conformity is available at www.evaka.se/downloads

Customer Support Contact:
Phone:
E-mail: support@evaka.se
Website: https://www.evaka.se/

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Notes

Notes

Notes

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EST: Kas vajate tootejuhendit? teistes keeltes? Skannige QR-kood.
DE: Sie benötigen ein Produkthandbuch in anderen Sprachen? Scannen Sie den QR-Code.
LUX: Braucht Dir e Produkthandbuch an anere Sproochen? Scan de QR Code.
SE: Behöver du en produktmanual på andra språk? Skanna QR-koden.
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SI: Ali potrebujete priročnik za izdelek v drugih jezikih? Skenirajte kodo QR.
SK: Potrebujete priročnik za izdelek? v drugih jezikih? Skenirajte kodo QR.
PL: Czy potrzebujesz instrukcji produktu? w innych językach? Zeskanuj kod QR.
PT: Precisa de um manual do produto? em outros idiomas? Digitalize o código QR.
MT: Għandek bżonn manwal tal-prodott? f'lingwi oħra? Skennja l-kodiċi QR.
BG: Имате ли нужда от ръководство за продукта? на други езици? Сканирайте QR кода.
HR: Trebate li priručnik za proizvod? na drugim jezicima? Skenirajte QR kod.
CZ: Potřebujete produktový manuál? v jiných jazycích? Naskenujte QR kód.
DK: Har du brug for en produktmanual på andre sprog? Scan QR-koden.
NL: Heb je een producthandleiding nodig? in andere talen? Scan de QR-code.
RO: Ai nevoie de un manual de produs? in alte limbi? Scanați codul QR.
HU: Szüksége van a termék kézikönyvére? más nyelveken? Olvassa be a QR-kódot.
GR: Χρειάζεστε ένα εγχειρίδιο προϊόντος; σε άλλες γλώσσες; Σαρώστε τον κωδικό QR.
IE: An bhfuil lámhleabhar táirge de dhíth ort? i dteangacha eile? Scan an cód QR.
IT: Hai bisogno di un manuale del prodotto? in altre lingue? Scansiona il codice QR.
UA: Вам потрібна інструкція до продукту іншими мовами? Відскануйте QR-код.

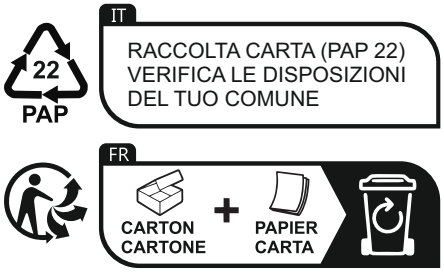


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Raccolta Carta