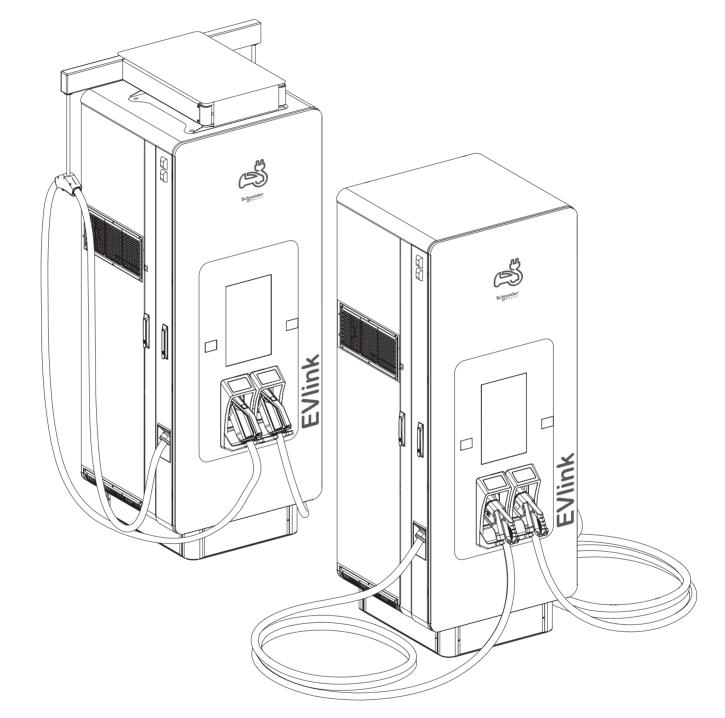
EVlink Pro DC 180 - GEX4300800

Installation Manual

EVlink Pro DC 180 Charging Station EVlink Pro DC 150 Charging Station EVlink Pro DC 120 Charging Station







۲

- Customer Care Center



GEX4300800-01_EN 12/2023

۲



۲

Legal Information	3
General	3
Important	4
Preface	4
1. System Overview	5
2. Installation Environment	5
3. Site Preparation	6
3.1 Underground Concrete Base	
3.2 Maintenance Distance	7
3.3 Ventilation Requirements	8
3.4 Parking Place Arangements Layout	8
3.5 Signage and Location	9
3.6 Bollards	9
3.7 Tilt/Collision Sensor	9
4. Electrical Requirements	10
5. Communication	10
6. Required Materials and Tools	10
7. Receiving, Handling	11
7.1 Receiving	11
7.2 Contents	11
8. Unpacking	12
8.1 Inspection	
8.2 Install cable management	
9. Handling and Mounting	
9.1 Handling and Fixing in Place	
10. Connecting	16
10.1 Connecting the Charging Station	
10.2 Ethernet Connection (Optional)	
10.3 Installation of 4G Sim Card (Optional)	
11. Installation of Power Module	19
12. Finalization	20
13. Startup / Shutdown	21
13.1 Startup	21
13.2 Shutdown	21
14. Recycle	21
15. Appendix 1: Installation Check List	22
16. Appendix 2: Charging Station Mounting Template	23
17. Appendix 3: Schematic diagram	24

GEX4300800-01_EN

۲

۲

Legal Information

The Schneider Electric brand and any trademarks of Schneider Electric SE and its subsidiaries referred to in this guide are the property of Schneider Electric SE or its subsidiaries

۲

All other brands may be trademarks of their respective owners.

This guide and its content are protected under applicable copyright laws and furnished for informational use only.

No part of this guide may be reproduced or transmitted in any form or by any means (electronic, mechanical, photocopying, recording, or otherwise), for any purpose, without the prior written permission of Schneider Electric.

Schneider Electric does not grant any right or license for commercial use of the guide or its content, except for a non-exclusive and personal license to consult it on an "as is" hasis

Schneider Electric products and equipment should be installed, operated, serviced, and maintained only by qualified personnel.

As standards, specifications, and designs change from time to time, information contained in this guide may be subject to change without notice.

To the extent permitted by applicable law, no responsibility or liability is assumed by Schneider Electric and its subsidiaries for any errors or omissions in the informational content of this material or consequences arising out of or resulting from the use of the information contained herein.

General

Warning Symbols Definitions

The following safety messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure

The addition of this symbol to a "Danger" or «Warning» safety message indicates that an electrical hazard exists which will result in personal injury if

This is the safety alert symbol.

the instructions are not followed.

It is used to alert you to potential personal injury hazards.

Obey all safety messages with this symbol to avoid possible injury or death.

A DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury. Failure to follow these instructions will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury. Failure to follow these instructions can result in death, serious injury, or equipment damage.

CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury. Failure to follow these instructions can result in injury or equipment damage

NOTICE

NOTICE is used to address practices not related to physical injury. The safety alert symbol shall not be used with this type of safety message. Failure to follow these instructions can result in equipment damage

Safety Instructions

DANGER

HAZARD OF ELECTRICAL SHOCK, EXPLOSION OR ARC FLASH

- Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices or equivalent local standards.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Turn off all power supplying this equipment before working on or inside equipment.

Always use a properly rated voltage sensing device to confirm power is off.

- Do not use this product if the enclosure, EV cable, or the EV connector is broken, cracked, open, or shows any other indication of damage.
- Do not put fingers into the electric vehicle connector.

The use of extension DC cables or vehicle connector adapters is not permitted. Failure to follow these instructions will result in death or serious injury.

A CAUTION

HAZARD OF DEGRADATION OF EQUIPMENT PERFORMANCE

• You must be a licensed electrician and complete a training course to become an EVlink Pro DC Charging Station certified installer.

To complete the training and become a certified installer, or for any further support refer to se.com or contact your local Schneider Electric Customer Care center. Do not modify any mechanical or electrical parts

Failure to follow these instructions can result in injury or equipment damage

NOTICE

RISK OF DAMAGING

EVlink Pro DC Charging Station should be installed, operated, serviced and maintained only by qualified personnel.

Schneider Electric will not accept any liability for consequences arising from the use of this material.

A gualified person is a person who has the skills and know-how relating to the construction, installation and operation of electrical equipment and who has received a safety training which enables him to recognize and avoid risks.

Failure to follow these instructions can result in equipment damage.

 (\bullet)

Important

To help you make the best use of your Charging Station, we have prepared this manual with the utmost care. It provides all the information you need to prepare for the installation and to install your equipment. We urge you to read it attentively and follow its instructions.

- The product must be installed according to the specifications and requirements as defined by Schneider Electric. No responsibility is assumed by Schneider Electric if these requirements are not respected.
- Non-approved installation methods are performed at the risk of the contractor and void the (limited) warranty.
- Under no circumstances will compliance with the information in this manual relieve the user of his/her responsibility to comply with all applicable
- codes or safety standards.
- This document describes the most used installation and mounting scenarios.
- If situations arise in which it is not possible to perform an installation following the procedures provided in this document, contact Schneider Electric.
- Schneider Electric is not responsible for any damages that may result from custom installations that are not described in this document or for any failure to adhere to installation recommendations.

Preface

This guide describes the planning and physical installation of the EVlink Pro DC 120 or 150 or 180 Charging Stations. The EVlink Pro DC Charging Stations are easy to install DC fast Charging Stations for electric vehicles. Fast Charging Stations are electrical installations with high electric currents. Therefore, the installation must be planned carefully, and must be done by certified personnel only (according to local standards).

The EVlink Pro DC 120/150 is physically the same Charging Station as a DC 180. The main difference is the output power it can deliver and therefore also the input power needed.

The differences of the DC120/150 and 180, and the consequences for the installation are described in the scope of application section.

As the physical installation of both types is equal, they will be referred to hereafter as EVlink Pro DC 180 only and this will account for all types,

unless specifically stated otherwise. EVlink Pro DC 180 is available in different versions, depending on the outlet types. The different versions are described in the scope of application section.

NOTE: Installing the EVlink Pro DC 180 Charging Station requires atleast two people and takes approximately 1-2 hours. This time estimate does not include the time needed to commission the Charging Station.

Scope of Application

Type of equipment applicable to this manual: EVlink Pro DC 120 kW – DC 150 kW - DC 180 kW List of references supported are:

Commercial Reference	Nominal Power	Vehicle connector	Cable management / Cable range (m)
EVD1S180TBB	180 kW DC	2 x CCS2	CMS / 3.6
EVD1S180THB	180 kW DC	1 x CCS2 + 1 x CHAdeMO	CMS / 3.6
EVD1S150TBB	150 kW DC	2 x CCS2	CMS / 3.6
EVD1S150THB	150 kW DC	1 x CCS2 + 1 x CHAdeMO	CMS / 3.6
EVD1S120TBB	120 kW DC	2 x CCS2	CMS / 3.6
EVD1S120THB	120 kW DC	1 x CCS2 + 1 x CHAdeMO	CMS / 3.6
EVD1S180TBBC7	180 kW DC	2 x CCS2	No CMS / 7.5
EVD1S150TBBC7	150 kW DC	2 x CCS2	No CMS / 7.5
EVD1S120TBBC7	120 kW DC	2 x CCS2	No CMS / 7.5

A CAUTION

RISK OF TRIPPING ON LOOSE CABLE

For versions not equipped with cable management system, it is not recommended for installation in public areas.

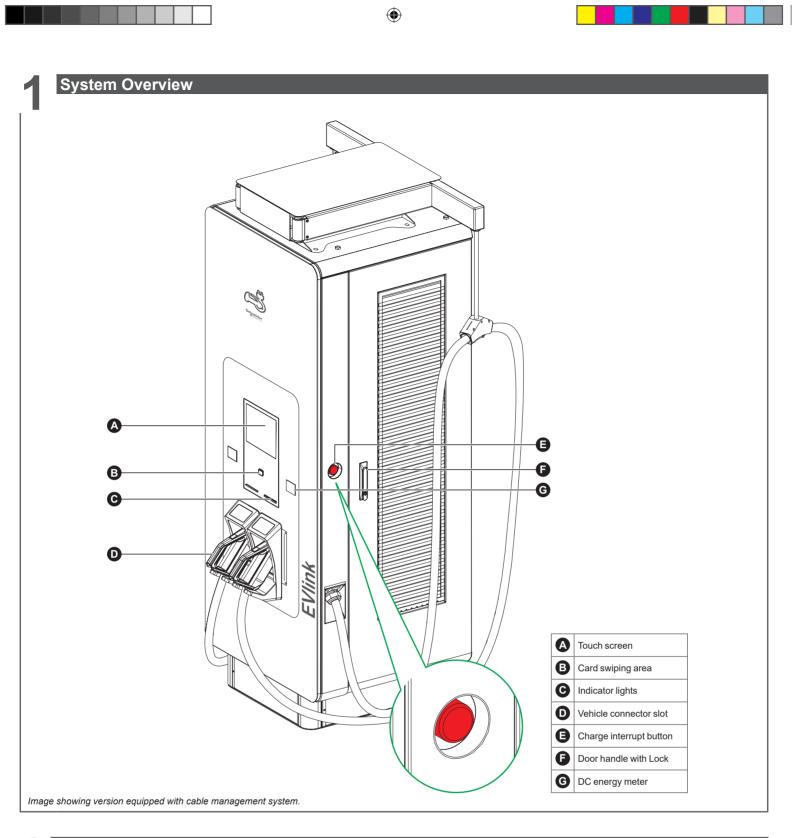
It is necessary to allocate a solution or space to place the cable to avoid cars running over it.

Failure to follow these instructions can result in injury or equipment damage.

Available Documentation

EVlink Pro DC available documents for each phase of the project:

Document	Reference	Content	Audiences
EVlink Pro DC 180 Datasheet	998-22029850	Full Charging Station specifications	Site designer, installer, and station operator
EVlink Pro DC 180 Installation Guide	GEX4300800	Civil, mechanical, and electrical installation guidelines	Site engineer or installer/contractor
EVlink Pro DC 180 Owners Guide	GEX4301000	Operation and maintenance guidelines	Site operator and end user



Installation Environment

The environmental conditions listed in the table below should be taken into consideration when selecting the installation site of the EVlink Pro DC Charging Station.

Environmental parameter	Permissible Conditions
EMC environment	Industrial environment – Class A
Ambient temperature	-30°C ~ 50°C, derating after 50°C
Humidity	10% ~ 95%
Altitude	Up to 2000 m
Ambience	Non explosive environments Housing corrosion protection level C4M Example of environment
	 Outdoor: Urban and industrial atmospheres, moderate sulphur dioxide pollution; coastal area with low salinity Indoor: Production rooms with high humidity and some air pollution
Location	Avoid accumulation of sand, dust, snow etc

NOTE: Contact Schneider Electric if the Charging Station will be installed closer than 4 km to a sea/ocean coastline.

GEX4300800-01_EN

۲

۲

3.1 Underground Concrete Base

A WARNING

۲

HAZARD OF HEAVY EQUIPMENT FALLING

- If not installed correctly, the EVlink Pro DC 180 may pose a fall hazard, leading to death, personal injury, or property damage.
- Always follow the provided concrete mounting pad dimension template included inside the shipping box and shown in this document, or a Schneider Electric-approved mounting solution, to install the EVlink Pro DC 180.

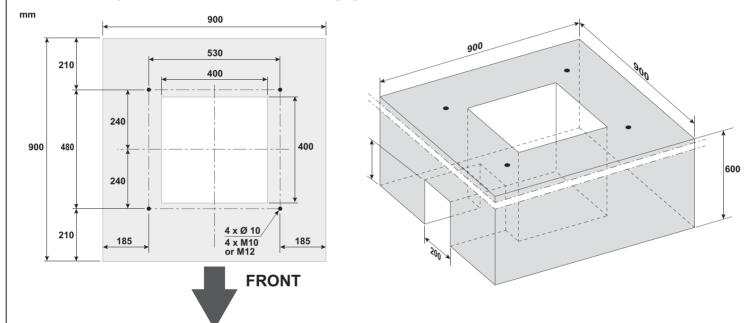
Non-approved installation methods are performed at the risk of the contractor and void the limited warranty. Failure to follow these instructions can result in death, serious injury, or equipment damage.

The Evlink Pro DC shall be mounted on concrete flooring. If the Charging Station will be installed outdoors in sandy or soil ground or on a frost line, a concrete base is mandatory.

Before beginning work, check that the site meets these civil and mechanical requirements outlined below, as illustrated in the following image.

1. Underground concrete base guidelines

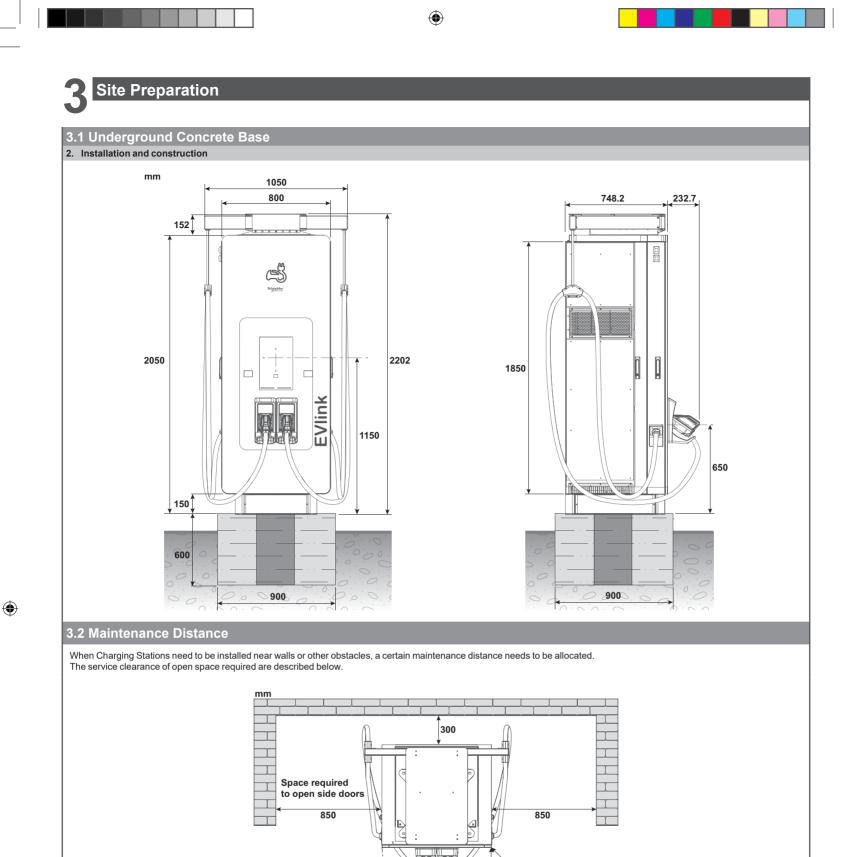
- The concrete pad must have a site drawing approved by a structural engineer for this specific site considering the soil behavior and/or any frost line and conforms to the mentioned specifications.
- Ensure a flat surface level with slight outward slope to drain any water, ensuring no obstacles prevent water draining from the base.
- The top of the concrete base must not be lower than the 0 finish floor level. However it may be higher according to the different site situations and local regulations.
- Please consider the height of the screen and the vehicle connector when designing the concrete base elevation.



After the concrete has dried, 4 M10 screws with length L = 250 mm are fixed into the concrete pad according to the provided template (Appendix 2) with 30 - 40 mm of threads exposed.

۲

 (\bullet)



NOTE: Ensure that enough space is available around the installation pad to use a forklift and other lifting equipment, unpack crates, remove packing materials, and allow two people to freely move throughout the area

Space required

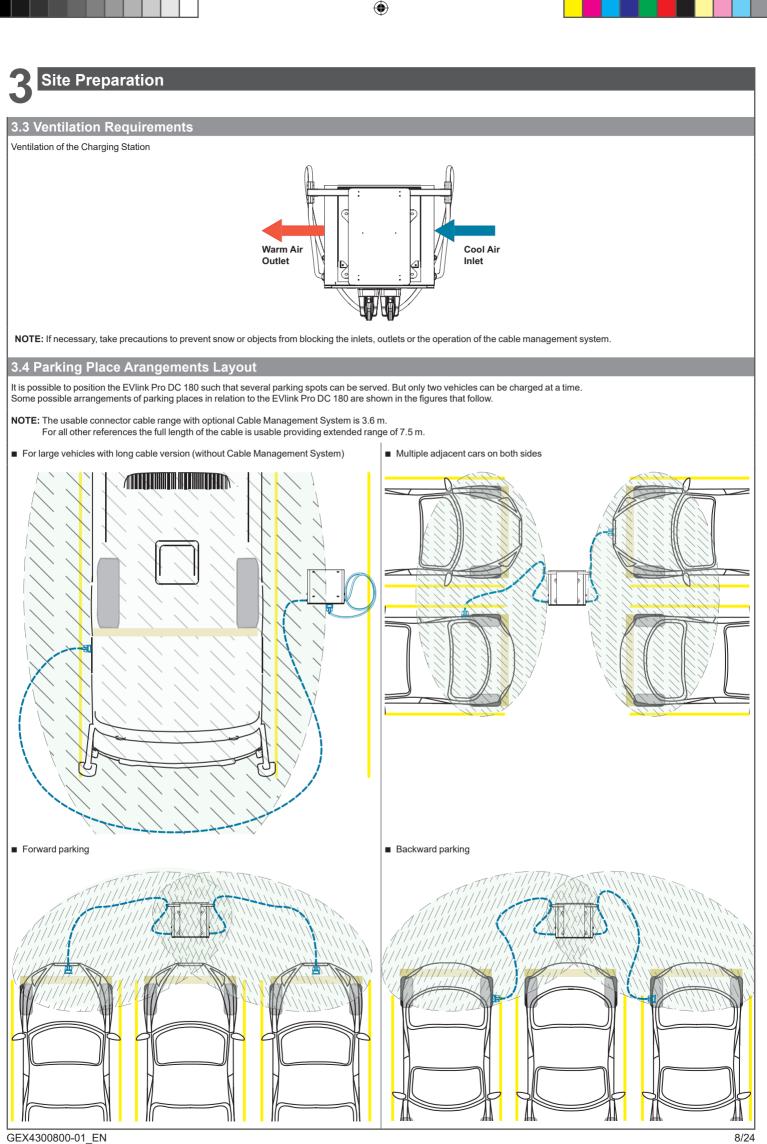
to open front door

900

to freely move throughout the area. For versions equipped with Cable Management System, It is recommended to allow for 500 mm clear space above the Charging Station to allow for maintenance.

GEX4300800-01_EN

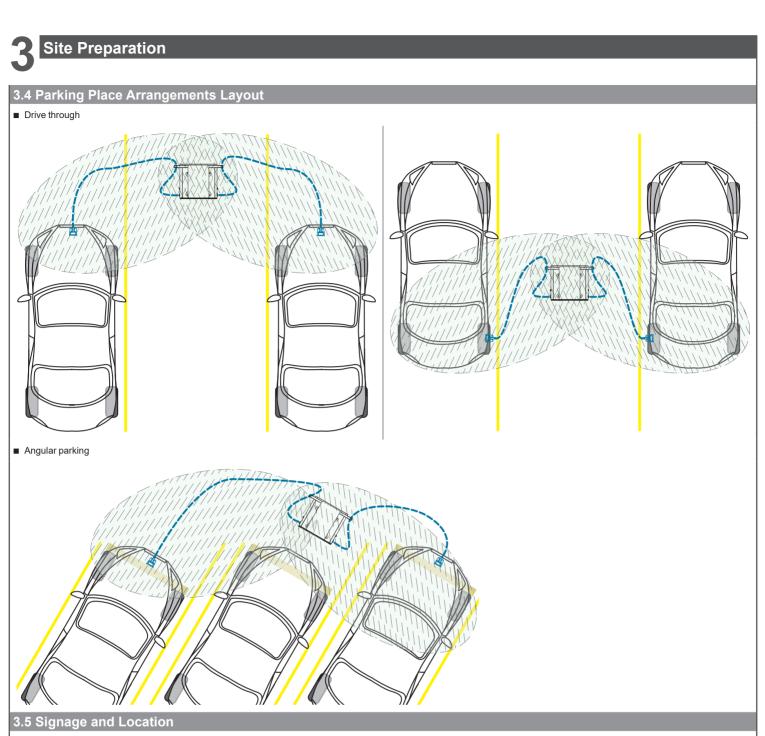
۲



GEX4300800-01_EN

19/12/2023 16:19:44

۲



Use road signs and / or special marking to direct drivers to the Charging Station locations and to distinguish the Electric Vehicle parking spaces from ICE (Internal Combustion Engine) vehicles spaces.

- To provide a secure comfortable environment for users, and to prevent vandalism and / or theft:
- Install the Charging Station in a location where it can be clearly seen and / or monitored.
- Use 24/7 security control.
- Install sufficient lighting around the Charging Station.
- For a comfortable user experience it is recommended to install a shed or other protection from the direct sunlight while using the charging station.

3.6 Bollards

۲

It is advised to place bollards around the Charging Station to protect against cars collisions.

NOTE: Bollards limiting the access

- When installing bollards around the Charging Station make sure all doors can still be opened to be able to service the Charging Station.
- In case bollard are installed that are blocking the doors, make sure they are the removable kind. If removable bollards are used, ensure the tool/key required to remove them is available in case of the Charging Station requiring services.

3.7 Tilt/Collision Sensor

EVlink Pro DC 180 is equipped with a tilt sensor that will interrupt output power/charging session if the sensor detects a tilt in the cabinet in any direction, for example if a vehicle collides with the charging station.

If triggered the indicator light will turn RED and any ongoing charging session will stop. The relevant error message will be shown on screen and an error code will be relayed to the OCPP backend if connected.

GEX4300800-01_EN

۲

NOTICE Note that the paper private circuit protection, and metering is in place at the installation site. Ensure that a grounding conductor that complex with local codes is properly grounded to earth at the power distribution e Ensure that a correctly rate (addicated breaker is installed for each station. Failure to follow these instructions can result in fire and/or equipment damage The electrical requirements for each type of Charging Station shall be followed according to this table: Electrical Parameters Rated supply voltage Earthing system Power factor Efficiency ThB Upstream Protection Circuit breaker ¹ It is recommended to use a circuit breaker with 30 mA residual current protection or in accordance to local regulations. Nominal output power Rated input current Max input current Upstream Cables Suggested cable type Cable Entry ^{**} Maximum conductor cross section/phase: *** or addicinal factibility in installations with different cable cross sections and/or number or cables per phase, the EVINK Pro DC 180 is delivered with 2 different cable entry plates. *** or addicinal factibility in installations meet to be verified according to site conditions, cable route, length, voltage damage in the case of Auminum cables. *** Of Communication *** Of Communication *** Of Automs and the case of Auminum cables. *** Of Communication *** Of Automs and the case of Auminum cables. *** Of Automs and the case of Auminum cables. *** Of Automs and the case of Auminum cables. *** Of Automs and the case of Auminum cables. **** Of Automs and the case of Auminum cables. ***********************************	380 V – 419 TT/TN-S / 1		
Electrical Parameters Rated supply voltage Earthing system Power factor Efficiency ThD Upstream Protection Circuit breaker* "It is recommended to use a circuit breaker with 30 mA residual current protection or in accordance to local regulations. Nominal output power Rated input current Upstream Cables Suggested cable type Cable Entry** Maximum conductor cross section/phase: Maximum conductor cross section/phase: "For additional flexibility in installations with different cable cross sections and/or number or cables per phase, the EVink Pro DC 180 is delivered with 2 different cable cross sections and/or number or cables per phase, the EVink Pro DC 180 is delivered with 2 different cable cross sections and/or number or cables per phase, the EVink Pro DC 180 is delivered with 2 different cable cross sections and/or number or cables per phase, the EVink Pro DC 180 is delivered with 2 different cable cross sections and/or number or cables per phase, the EVink Pro DC 180 is delivered with 2 different cable cross sections and/or number or cables per phase, the EVink Pro DC 180 is delivered with 2 different cable cross sections and/or number or cables per phase, the EVink Pro DC 180 is delivered with 2 different cable cross sections and/or number or cables per phase, the EVink Pro DC 180 is delivered with 2 different cable cross sections and/or number or cables per phase, the EVink Pro DC 180 is delivered with 2 different cable cross sections and/or number or cables per phase, the EVink Pro DC 180 is delivered with 2 different cable cross sections and/or number or cables per phase, the EVink Pro DC 180 is delivered with 2 different cable cross sections and/or number or cables per phase, the EVink Pro DC 180 is delivered with 2 different cable cross sections and/or number or cables per phase, the EVink Pro DC 180 is delivered with 2 different cable cross sections and/or number or cables per phase, the EVink Pro DC 180 is delivered with 2 different cable cross sections and/or number or cables per phase, the Submet and t	TT/TN-S/1		
Reted supply voltage Earthing system Power factor Efficiency ThD Upstream Protection Circuit breaker* It is recommended to use a circuit breaker with 30 mA residual current protection or in accordance to local regulations. Nominal output power Reted input current Max input current Upstream Cables Suggested cable type Cable Entry* Maximum conductor cross section/phase: Maximum outer cable diameter/phase: For additional flexibility in installations with different cable entry plates. With Pro DC 180 is delivered with 2 different cable entry plates. With Pro DC 180 is delivered with 2 different cable entry plates. With Pro DC 180 is delivered with 2 different cable entry plates. More: The necessary cable size calculations need to be verified according to site conditions, cable route, length, voltage dr	TT/TN-S/1		
Earthing system Power factor Fibi Upstream Protection Circuit breaker* It is recommended to use a circuit breaker with 30 mA residual current protection or in accordance to local regulations. Nominal output power Rated input current Upstream Cables Suggested cable type Cable Entry** Maximum conductor cross section/phase: Maximum outer cable diameter/phase: For additional flexibility in installations with different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 different cable entry plates. EVINK Pro DC 180 is delivered with 2 differ	TT/TN-S/1		
Earthing system Power factor Efficiency HDI Upstream Protection Circuit breaker* It is recommended to use a circuit breaker with 30 mA residual current protection or in accordance to local regulations. Nominal output power Rated input current Vast input current Upstream Cables Suggested cable type Cable Entry** Maximum conductor cross section/phase: Maximum outer cable diameter/phase: "For additional flexibility in installations with different cable entry plates. Visc diameter/phase: "For additional flexibility in installations with different cable entry plates. OFTE: The necessary cable size calculations need to be verified according to site conditions, cable route, length, voltage dn If you have future upgrade plans, it is recommended to install electric infrastructure suitable for the future installation. Bimetallic lugs must be used in the case of Aluminum cables. Communication Collular and Wireless signal se signal detection device to ensure the signal is within the recommended strength according to the below guidelines:: (Note that these numbers are ne	TT/TN-S/1	5 Vac +/- 10 % 50	/ 60 Hz
bower factor ifficiency HDi Jpstream Protection Sircuit breaker* It is recommended to use a circuit breaker with 30 mA residual current protection or in accordance to local regulations. Iominal output power tated input current Jpstream Cables Biggested cable type Cable Entry** Aaximum conductor cross section/phase: Aaximum conductor cross section/phase: For additional flexibility in installations with different cable cross sections and/or number or cables per phase, ne EVInk Pro DC 180 is delivered with 2 different cable entry plates. OTE: The necessary cable size calculations need to be verified according to site conditions, cable route, length, voltage dr If you have future upgrade plans, it is recommended to install electric infrastructure suitable for the future installation. Bimetallic lugs must be used in the case of Aluminum cables. Communication Eellular and Wireless signal te a signal detection device to ensure the signal is within the recommended strength according to the below guidelines: (Note that these numbers are negligible)	0.99 at nom		
HDI Instream Protection Instruct breaker* It is recommended to use a circuit breaker with 30 mA residual current protection or in accordance to local regulations. Instruction of the second		minal output powe	r
pstream Protection irouit breaker* tis recommended to use a circuit breaker with 30 mA residual current protection or in accordance to local regulations. cominal output power ated input current ax input current pstream Cables uggested cable type able Entry** aximum conductor cross section/phase: aximum outer cable diameter/phase: For additional flexibility in installations with different cable cross sections and/or number or cables per phase, ie EVlink Pro DC 180 is delivered with 2 different cable entry plates. OTE: The necessary cable size calculations need to be verified according to site conditions, cable route, length, voltage dru fryou have future upgrade plans, it is recommended to install electric infrastructure suitable for the future installation. Bimetallic lugs must be used in the case of Aluminum cables. Communication cellular and Wireless signal a signal detection device to ensure the signal is within the recommended strength according to the below guidelines:: (Note that these numbers are negligible)	94.5 % at n	nominal output pov	wer
ircuit breaker* tis recommended to use a circuit breaker with 30 mA residual current protection or in accordance to local regulations. cominal output power ated input current take input current poteen Cables uggested cable type cable Entry** Teximum conductor cross section/phase: laximum outer cable diameter/phase: For additional flexibility in installations with different cable cross sections and/or number or cables per phase, the EVlink Pro DC 180 is delivered with 2 different cable entry plates. OTE: The necessary cable size calculations need to be verified according to site conditions, cable route, length, voltage dra lf you have future upgrade plans, it is recommended to install electric infrastructure suitable for the future installation. Bimetallic lugs must be used in the case of Aluminum cables. Communication E Communication E a signal detection device to ensure the signal is within the recommended strength according to the below guidelines: (Note that these numbers are negles)	≤ 5 % at no	ominal output powe	er
ti s recommended to use a circuit breaker with 30 mA residual current protection or in accordance to local regulations. In the input current is input current in the input current is input current input current input current is input current input current is input current is input current is input current input current input current input current is input current input			
ominal output power iated input current lax input current lpstream Cables uggested cable type cable Entry** taximum conductor cross section/phase: taximum outer cable diameter/phase: For additional flexibility in installations with different cable cross sections and/or number or cables per phase, ie EVlink Pro DC 180 is delivered with 2 different cable entry plates. OTE: The necessary cable size calculations need to be verified according to site conditions, cable route, length, voltage drif you have future upgrade plans, it is recommended to install electric infrastructure suitable for the future installation. Bimetallic lugs must be used in the case of Aluminum cables. Communication e a signal detection device to ensure the signal is within the recommended strength according to the below guidelines: (Note that these numbers are negres)	3PH + N + I	PE	
ated input current tax input			
Iax input current pstream Cables uggested cable type sable Entry** laximum conductor cross section/phase: laximum outer cable diameter/phase: For additional flexibility in installations with different cable cross sections and/or number or cables per phase, le EVlink Pro DC 180 is delivered with 2 different cable entry plates. OTE: The necessary cable size calculations need to be verified according to site conditions, cable route, length, voltage dr If you have future upgrade plans, it is recommended to install electric infrastructure suitable for the future installation. Bimetallic lugs must be used in the case of Aluminum cables. Communication Eduluar and Wireless signal e a signal detection device to ensure the signal is within the recommended strength according to the below guidelines: (Note that these numbers are negligible)	120 kW	150 kW	180 kW
pstream Cables uggested cable type able Entry** aximum conductor cross section/phase: aximum outer cable diameter/phase: For additional flexibility in installations with different cable cross sections and/or number or cables per phase, is e EVlink Pro DC 180 is delivered with 2 different cable entry plates. Image: Different cable cross sections and/or number or cables per phase, is e EVlink Pro DC 180 is delivered with 2 different cable entry plates. Image: Different cable cross sections and/or number or cables per phase, is e EVlink Pro DC 180 is delivered with 2 different cable entry plates. Image: Different cable cross sections and/or number or cables per phase, is e EVlink Pro DC 180 is delivered with 2 different cable entry plates. Image: Different cable cross sections and/or number or cables per phase, is e commended to install electric infrastructure suitable for the future installation. Bimetallic lugs must be used in the case of Aluminum cables. Image: Different cable commended to install electric infrastructure suitable for the future installation. Bimetallic lugs must be used in the case of Aluminum cables. Image: Different cable commended to install electric infrastructure suitable for the future installation. Bimetallic lugs must be used in the case of Aluminum cables. Image: Different cable commended to install electric infrastructure suitable for the future installation. Bimetallic lugs must be used in the case of Aluminum cables. Image: Different cable commended strength according to the below guidelines: (Note that these numbers a	193 A	242 A	291 A
uggested cable type cable Entry** Iaximum conductor cross section/phase: Iaximum outer cable diameter/phase: For additional flexibility in installations with different cable cross sections and/or number or cables per phase, ie EVlink Pro DC 180 is delivered with 2 different cable entry plates. If you have future upgrade plans, it is recommended to install electric infrastructure suitable for the future installation. Bimetallic lugs must be used in the case of Aluminum cables. Communication Edular and Wireless signal e a signal detection device to ensure the signal is within the recommended strength according to the below guidelines: (Note that these numbers are negligible)	214 A	268 A	323 A
uggested cable type able Entry** aximum conductor cross section/phase: aximum outer cable diameter/phase: For additional flexibility in installations with different cable cross sections and/or number or cables per phase, e EVlink Pro DC 180 is delivered with 2 different cable entry plates. Image: the properties of			
Data in the stable Entry** laximum conductor cross section/phase: laximum outer cable diameter/phase: For additional flexibility in installations with different cable cross sections and/or number or cables per phase, is EVInk Pro DC 180 is delivered with 2 different cable entry plates. Image: the eVink Pro DC 180 is delivered with 2 different cable entry plates. Image: the eVink Pro DC 180 is delivered with 2 different cable entry plates. Image: the event of the even of the event	U1000 R2V	V Fine or Extra Fin	ne Wire Strand
Iaximum conductor cross section/phase: Iaximum outer cable diameter/phase: For additional flexibility in installations with different cable cross sections and/or number or cables per phase, the EVlink Pro DC 180 is delivered with 2 different cable entry plates.			
Iaximum outer cable diameter/phase: For additional flexibility in installations with different cable cross sections and/or number or cables per phase, the EVlink Pro DC 180 is delivered with 2 different cable entry plates.	240 mm ²		
OTE: The necessary cable size calculations need to be verified according to site conditions, cable route, length, voltage druin fyou have future upgrade plans, it is recommended to install electric infrastructure suitable for the future installation. Bimetallic lugs must be used in the case of Aluminum cables. Communication Cellular and Wireless signal e a signal detection device to ensure the signal is within the recommended strength according to the below guidelines: (Note that these numbers are neglitication)	31 mm		
Communication Cellular and Wireless signal se a signal detection device to ensure the signal is within the recommended strength according to the below guidelines: (Note that these numbers are negligible)	op.		
Cellular and Wireless signal are a signal detection device to ensure the signal is within the recommended strength according to the below guidelines: (Note that these numbers are neg			
e a signal detection device to ensure the signal is within the recommended strength according to the below guidelines: (Note that these numbers are neg			
e a signal detection device to ensure the signal is within the recommended strength according to the below guidelines: (Note that these numbers are neg			
	gative, so -70 dBm i	is stronger than -{	85 dBm,
Signal Cellular Signal CSQ Signal Wireless LAN S			
Quality Excellent >-15 Quality Excellent		> -70	
Fair 2 to 14 Fair Poor <2		-70 to -90 < -90	
Ethernet cable			
se RJ45 cat 6, shielded, twisted pairs.			

۲

1. Specific equipment Before you go to the site, please prepare the following tools/equipment:

- Forklift/Crane
- Safety step ladder Personal Protective Equipment (PPE)
- Cable cutter
- Wire stripper
- Wire presser/pliers

NOTE: The above tools should be selected according to the actual situation on-site.

GEX4300800-01_EN

- Power drill Spirit level
 - Toolbox Multimeter
- LOTO (Lock Out Tag Out) safety equipment

10/24

7.1 Receiving

A WARNING

۲

HAZARD OF EQUIPMENT FALLING

- EVlink Pro DC Charging Stations are delivered on pallets, enabling the bottom handling.
- When handled from the bottom, the Charging Station must be lifted with care and held in place during transport by properly strapping them onto the forklift or handling equipment. Always transport and store the Charging Station in its original packaging.
- Ensure the load rating of all lifting equipment (forklift, crane and lifting straps, etc) is adequate for the weight of the Charging Station as shown below.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

WARNING

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Do not install the Charging Station during harsh weather.
- If you must complete the installation in rain or wind, you must use a weather-proof shelter that covers all boxes and components to avoid water entering inside the enclosure. Do not use power tools during installation or servicing. Over-torqueing can damage the equipment.
- Failure to follow these instructions can result in death, serious injury, or equipment damage.

7.2 Contents

Inside the EVlink Pro DC shipping box you should find the below mentioned items and documents. If there are any missing items or documents, please contact Schneider Electric for the necessary replacements:

Quantity Item Charging Station mounting template 1 EVlink Pro DC Charging Station (120, 150 or 180) 1 Power modules 4.5 or 6 Keys 3 Lifting rings 4 Generic RFID badge (for testing) 2 User guidance sticker 1 Bottom entry cable plate 2 **Documents** Installation manual

Owners manual

A DANGER

HAZARD OF HEAVY EQUIPMENT FALLING

Do not stand or move beneath the crate as it is being lifted or tilted.

Failure to follow these instructions will result in death or serious injury.

Each EVlink Pro DC (120, 150 or 180) Charging Station ships in one crate. Ensure you have correct crate at the installation site.

Contents	Shipping dimensions (mm)	Shipping weight (KG)
EVD1S180TBB	H 2440 x W 1250 x D 1100	646
EVD1S180THB	H 2440 x W 1250 x D 1100	646
EVD1S150TBB	H 2440 x W 1250 x D 1100	631
EVD1S150THB	H 2440 x W 1250 x D 1100	631
EVD1S120TBB	H 2440 x W 1250 x D 1100	616
EVD1S120THB	H 2440 x W 1250 x D 1100	616
EVD1S180TBBC7	H 2440 x W 1250 x D 1100	627
EVD1S150TBBC7	H 2440 x W 1250 x D 1100	612
EVD1S120TBBC7	H 2440 x W 1250 x D 1100	597

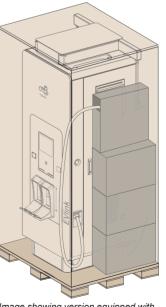
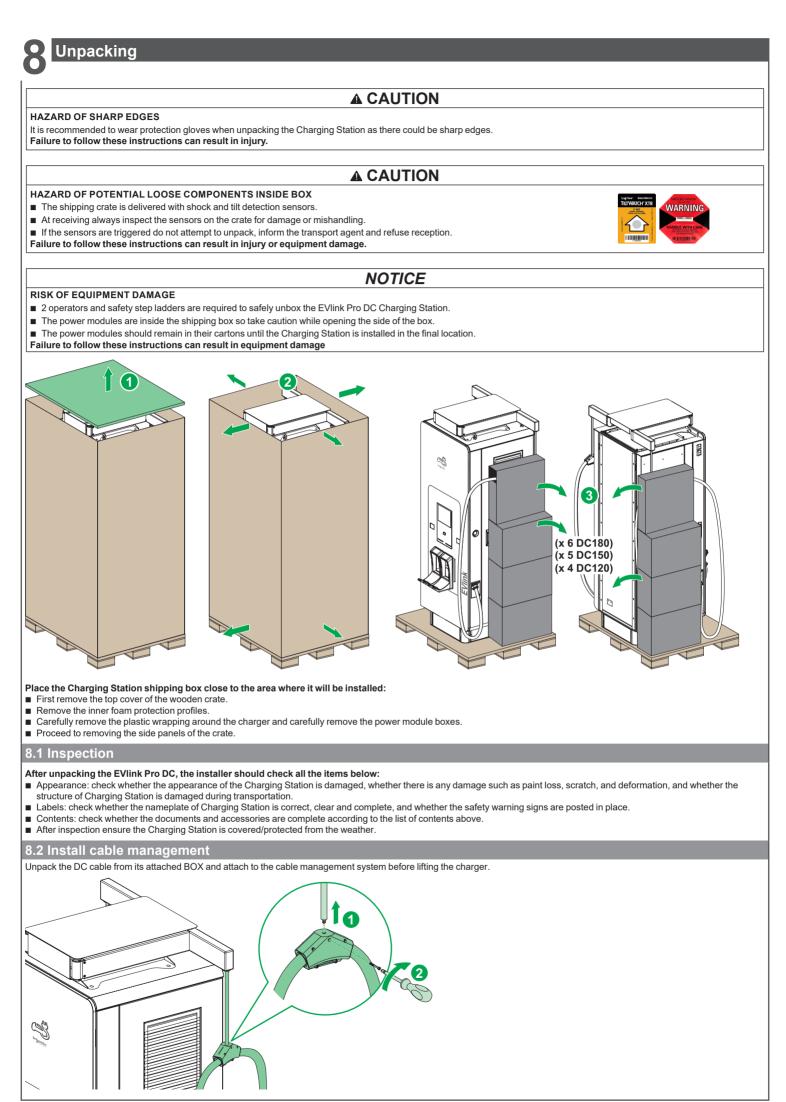


Image showing version equipped with Cable Management System.

۲

GEX4300800-01_EN



GEX4300800-01_EN

۲



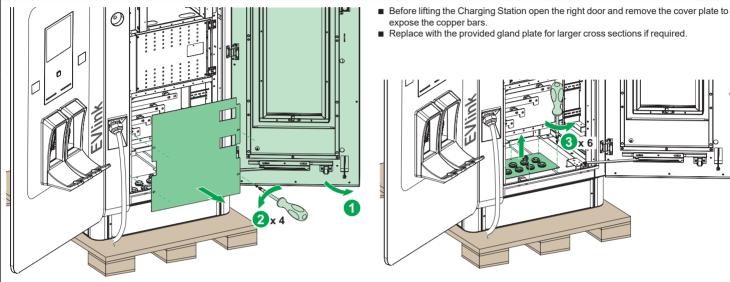
9.1 Handling and Fixing in Place

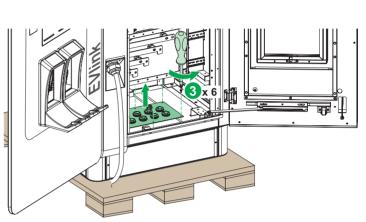
A WARNING

۲

- HAZARD OF HEAVY EQUIPMENT FALLING
- The EVlink Pro DC 180 weighs at least 500 kg without power modules installed, ensure appropriate hoisting ropes and machinery.
- Extreme caution must be exercised while handling, lifting, or hoisting the Charging Station.
- Personal Protective Equipment required, hard hat, safety shoes, gloves.
- Failure to follow these instructions can result in death, serious injury, or equipment damage.

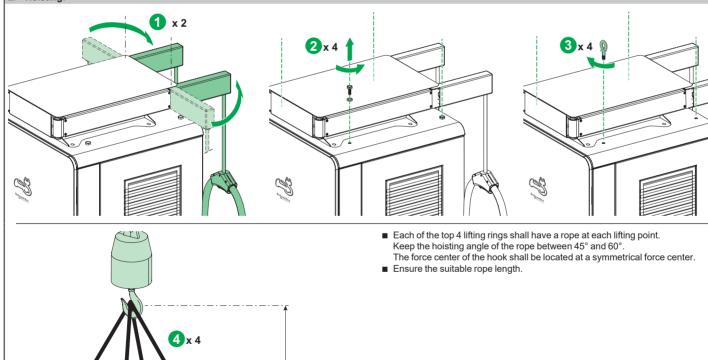
1. Before hoisting:

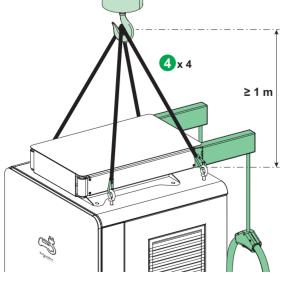




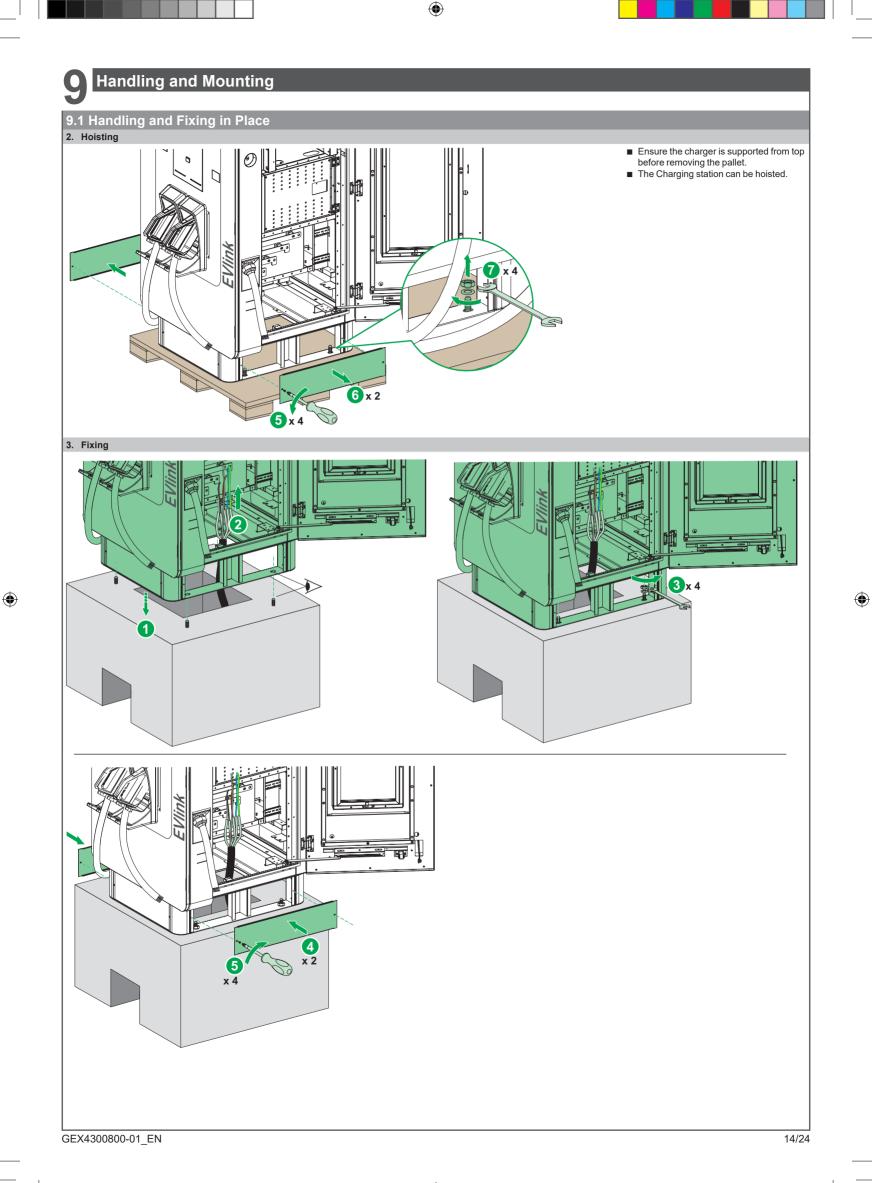


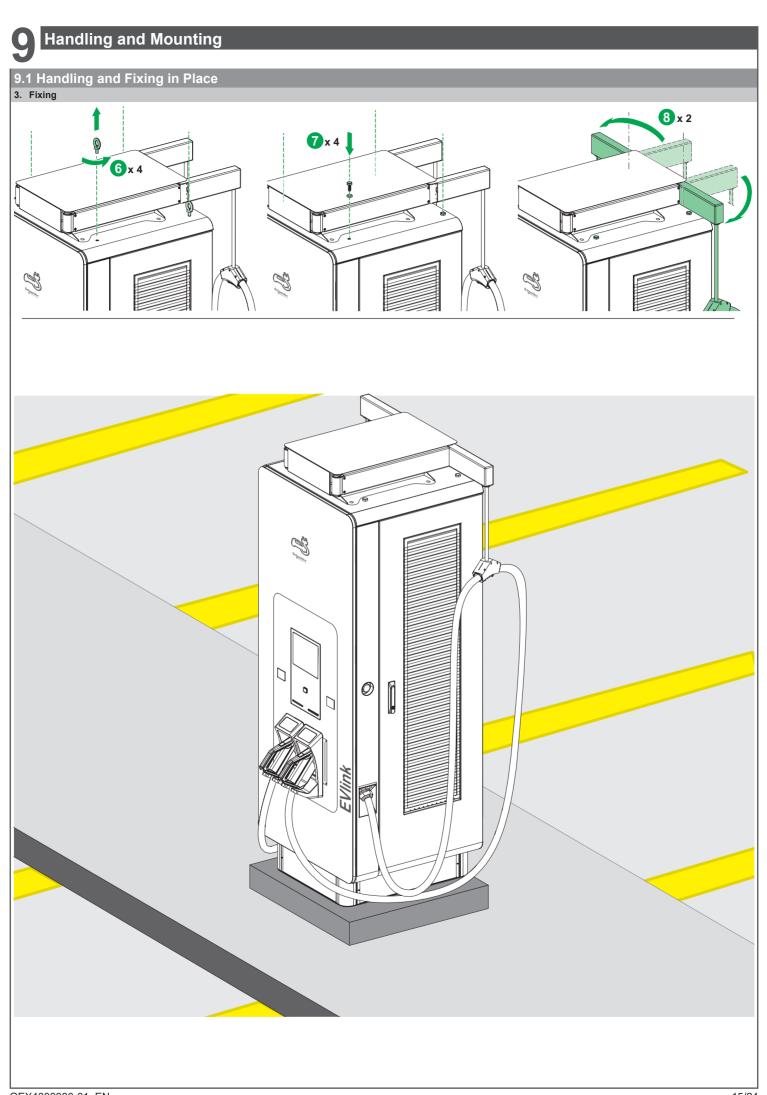
۲





GEX4300800-01_EN





۲

Connecting

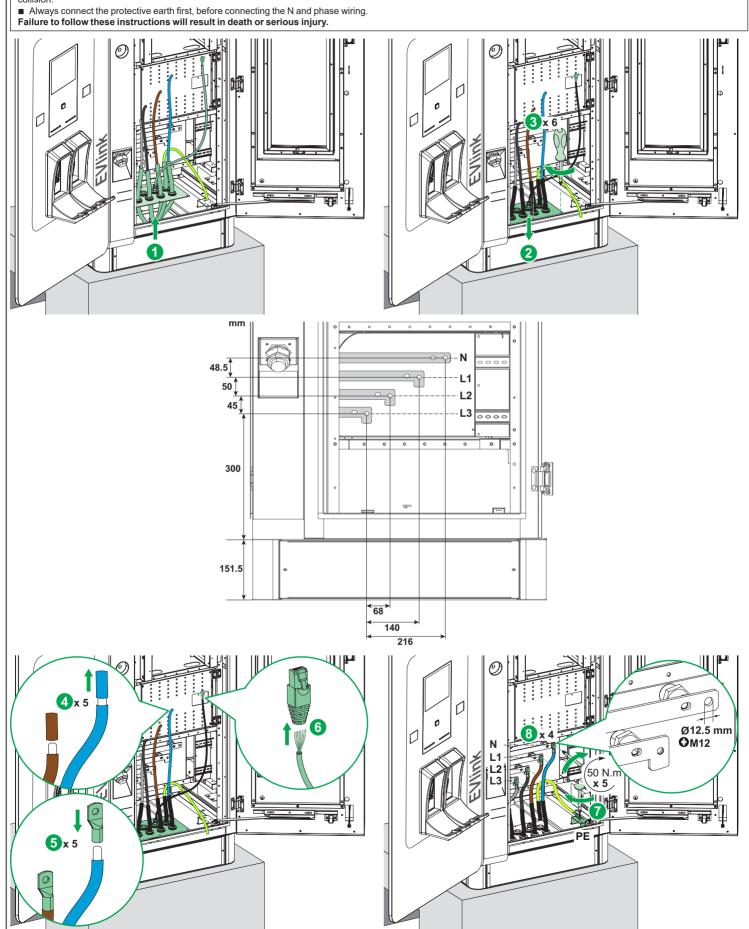
10.1 Connecting the Charging Station

A DANGER

۲

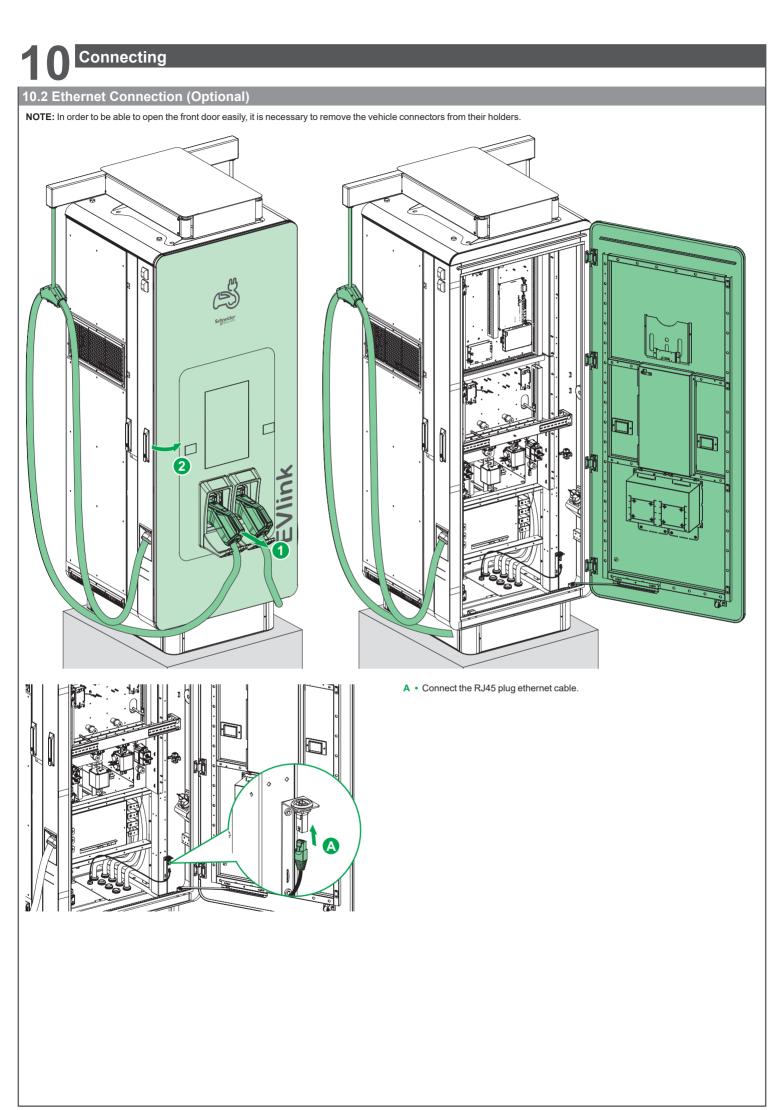
HAZARD OF ELECTRIC SHOCK

It is recommended to make the PE wire longer than the phase wires to ensure that the PE wire stays connected the longest if the Charging Station is moved by an accident/ collision.

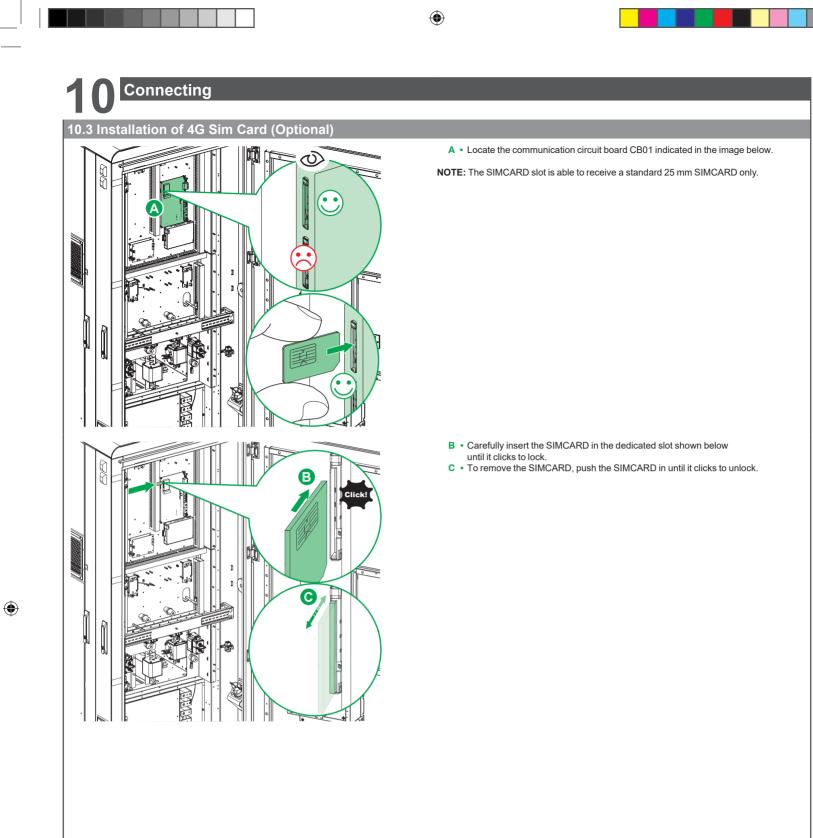


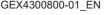
GEX4300800-01_EN

۲



۲





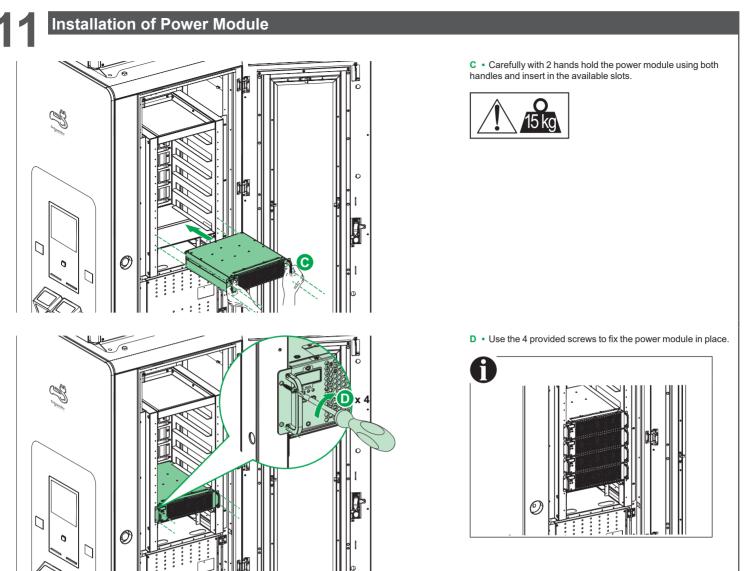


۲

• The power module is equipped with an intelligent Air-Cooling system. A fan is installed at the front of the module which draws air from the front of the module to the rear. The front and rear of the power module must be clear of any obstructions while installed in the Charging Station.
 Failure to follow these instructions can result in equipment damage. NOTE: The power modules will be shipped with their address settings set and identified in their addressed order from bottom to top; i.e. A01 in the bottom slot and A06 in the top slot. **0** /15 kg A • Open the right-hand door of the Charging Station.
B • Locate the slot in which the power module will be installed. E C A06 A05 A A04 A03 A02 A01 D Ø 0 UF I Т GEX4300800-01_EN 19/24 ۲

A CAUTION

HAZARD OF EQUIPMENT DAMAGE

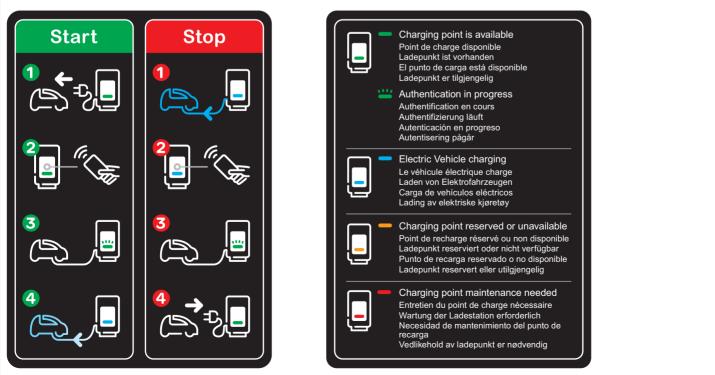


Finalization

۲

Complete the installation checklist (Appendix 1) and ensure any open points are closed before placing it in the document holder inside the charger for verification prior to commissioning.

Place the provided user guidance sticker on a suitable/visible location on the Charging station. (Optional).



۲

GEX4300800-01_EN

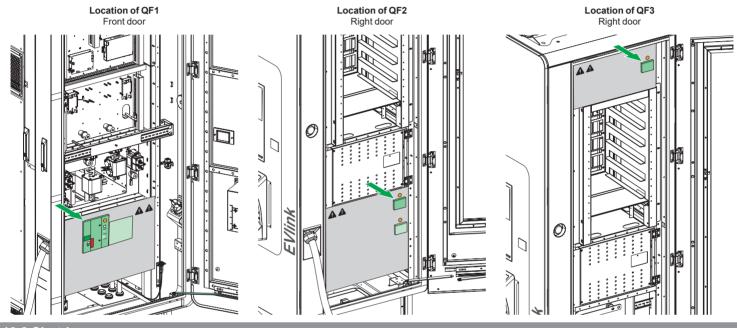
20/24

۲

- HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH
- It is not possible to isolate the Charging Station fully unless the upstream circuit breaker is switched Off.
 Even with the internal circuit breakers switched off there remains live current in the Charging Station.
- When the system is in an open or dangerous condition, do not allow unqualified persons to go near it. Instruct/warn people about the potential harmful high voltages.
- Make sure that the main upstream protection switch of the power supply for the product is set to the OFF position. Follow standard Lock-Out/Tag-Out before you proceed.
- Always perform a voltage absence test and make sure that the electrical power is disconnected from the system.
- Failure to follow these instructions will result in death or serious injury

13.1 Startup

- After completing the installation inspection checklist, you can proceed to Startup the charger to test the Power system:
- A Keep the upstream circuit breaker in the open (off) position and proceed to close (ON) the QF1 main breaker and QF2 and QF3 MCBs in the Charging Station.
- B Close and secure all the Charging Station doors.
- C Proceed to close the upstream circuit breaker (ON).
- D • Wait for 1 minute for the HMI and indicator lights to come online. The HMI screen will display a welcome screen. Verify that there is no error messages and that both indicator lights are stable green.
- E Switch off the charger and wait 5 minutes before you proceed to commissioning.



13.2 Shutdown

۲

DANGER

HAZARD OF ELECTRIC SHOCK

- This equipment contains capacitors which take time to discharge.
- It is mandatory to wait 5 minutes after the equipment is disconnected before touching any internal parts
- Failure to follow these instructions will result in death or serious injury

To shutdown the system:

- A Open the QF1 main breaker.
- B Open the QF3 MCB.
- C Open the upstream protection breaker
- D Perform Lock-out Tag-Out.



Product Disposal

To comply with Directive 2012/19/EU of the European Parliament and of the Council of 4 July 2012 on waste electrical and electronic equipment (WEEE), devices marked with this symbol may not be disposed of as part of unsorted domestic waste inside the European Union. Enquire with local authorities regarding proper disposal. Product and packaging materials are recyclable as marked

۲

GEX4300800-01_EN

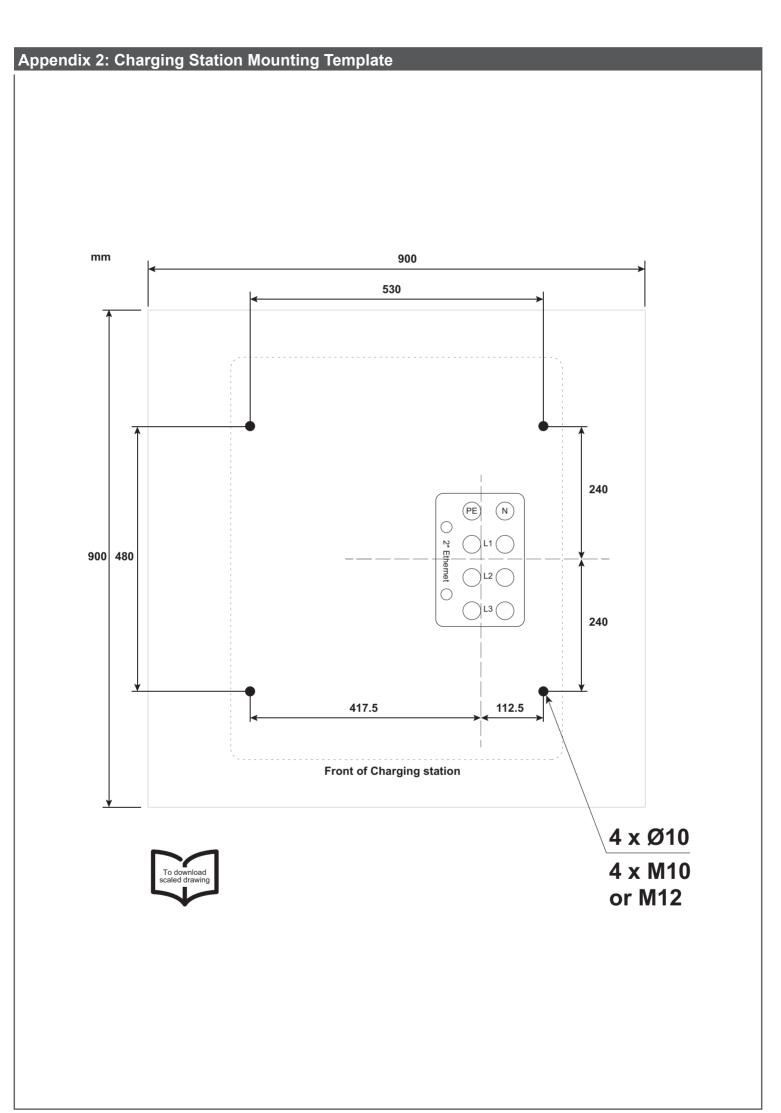
Inspection or Verification	Characteristics	Remarks or R
ucture	Check whether the Charging Station base plates and cable glands are fixed and sealed.	
	Check the Charging Station is well mounted on the concrete foundation and is leveled.	
	Check whether all doors operation and panels are intact, closed and locks are intact.	
	Check that the IP is maintained, gaskets and cable glands secured and no openings permit dust, insects or rodents.	
	Check the necessary space is available for maintenance and all construction work is complete.	
Aesthetic	Check the appearance and cleanliness.	
	Check all signs and notices are clear and intact and remove the protective film from the HMI screen and the safety notices.	
nternal components	Verify the QF1 main breaker and QF2 and QF3 MCBs are in the open (OFF). Position before energizing.	
	Check whether the internal components of the charger are intact. (Removal of internal covers is not required).	
	Visually check for any loose component or wiring.	
	Check for any loose hardware or foreign objects in the bottom of the charger.	
	Verify all grounding cables are secured on all doors and on the bottom of the charger.	
	Verify each power module is screwed in place in its correctly numbered slot.	
Electrical tests	Grounding resistance is $\leq 4\Omega$.	
	Check for over/under voltage.	
Power connections	The specifications of the cables used meet the power requirements of the Charging Station.	
	All power connections (N 1 2 3 and PE) are securely torqued according to the recommended values. (50 Nm).	
	Phase orientation is correct and identified on the cables.	
	Check clearances and creepage distances.	
	No breakage, damage, scratches on cable insulation and all electrical connections and wiring are correct and complete.	
	Check the Charging Cable and connectors are Intact.	
	Check the power module plug in connectors are intact (both upstream and downstream)	
Communication	Ensure that the 4G SIMcard is installed.	
	Ensure that the Ethernet cable is connected to the RJ45 port.	

NOTE: Complete the installation checklist and ensure any open points are closed before placing it in the document holder inside the charger for verification prior to commissioning.

GEX4300800-01_EN

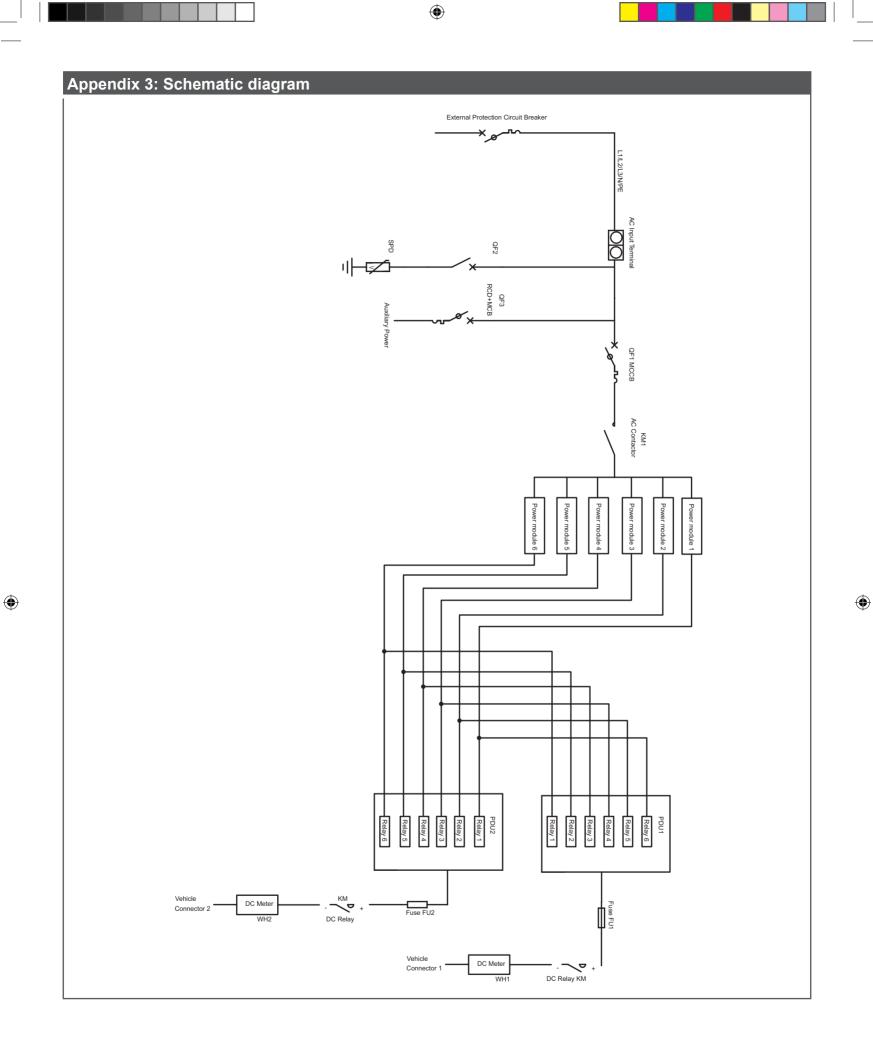
۲

۲



۲

۲



Schneider Electric Industries SAS 35, rue Joseph Monier CS 30323 F - 92506 Rueil Malmaison Cedex www.se.com GEX4300800-01_EN UK Representative Schneider Electric Limited Stafford Park 5 Telford TF3 3BL United Kingdom



24/24