eMobility solutions
Building the future of all-electric mobility

Electric vehicle charging solutions
Catalog 2023

se.com/emobility
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Green Premium™

Schneider Electric’s commitment to deliver sustainable performance, by design.

Green Premium label promises compliance with the latest regulations, transparency on environmental impacts as well as circular and low-CO$_2$ products.

**CO$_2$ and P&L impact through… Resource Performance**
Green Premium brings improved resource efficiency throughout an asset’s lifecycle. This includes efficient use of energy and natural resources, along with the minimization of CO$_2$ emissions.

**Cost of ownership optimization through… Circular Performance**
We’re helping our customers optimize the total cost of ownership of their assets. To do this, we provide IoT-enabled solutions, as well as upgrade, repair, retrofit, and remanufacture services.

**Peace of mind through… Well-being Performance**
Green Premium products are RoHS and REACh compliant. We’re going beyond regulatory compliance with step-by-step substitution of certain materials and substances from our products.

**Improved sales through… Differentiation**
Green Premium delivers strong value propositions through third-party labels and services. By collaborating with third-party organizations we can support our customers in meeting their sustainability goals such as green building certifications.

*PEP: Product Environmental Profile (i.e. Environmental Product Declaration)*
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*Available soon in selected European countries
Building the mobility of the future

SCALABILITY AND RESILIENCY
EFFICIENCY AND SUSTAINABILITY
CONNECTIVITY AND INTEROPERABILITY
CYBERSECURITY

eMobility solutions

Extensive network of certified partners
Industry standards compliance
Worldwide customer support
End-to-end solutions provider

AT STREET
AT DESTINATION
We provide end-to-end eMobility solutions, beyond the EV charging infrastructure, where the whole electric mobility ecosystem is connected to provide cost-efficient and convenient charging experience for homes, buildings, and fleets, minimizing downtime and prioritizing the use of renewable energy for a net-zero future.

"We drive towards a 100% electric mobility for a more efficient, resilient and sustainable way to get to a net-zero destination"
EcoStruxure™ for eMobility Application

eMobility for Single Family Homes

Charge your car with a smart End-to-End solution

I want to charge my car without tripping my house, while optimizing my comfort and keeping my energy consumption under control.

EVlink Home Smart provides homeowners with an easy smart charging experience. Charge at the right time, with the option to select the most suitable charging mode, while optimizing energy usage and avoiding power overruns.

EVlink Home Smart

Wall-mounted charging station
Convenient, compliant and attractive design:
• A full range of products: T2 socket, with or without attached cable, 3 power ranges available (Certification: CE 61851-1 ed 3.0)
• Built-in internal protection: RDC-DD 6 mA
• Communication protocol OCPP 1.6J to connect to Wiser application
• User-friendly LED status indicator

Anti-Tripping Module
Power load management
• Continuously adapt the power supplied to charge the car, taking home consumption into account
• No need for an additional communication cable (Power Line Communication)

Wiser Mobile App
Connected technology
• Remote control and scheduling of EV charging
• Bill optimization based on ToU tariff
• Energy consumption monitoring
Customer benefits

For the homeowner:
- No disruption to lifestyle while the installation is running
- Optimized charging sessions
- EV charging schedule to avoid peak tariffs
- Competitive and certified offer

For electricians:
- Reduced installation time
- Schneider Electric certification and training
- Products available from distributors

For distributors:
- Competitive offer to become the One-Stop Shop for EVs
- Entire application sales with strong market demand

For home builders:
- Benefit of Schneider Electric’s reputable network of certified partners
- Competitive and certified offer

Smart charging End-to-End Solution

Protect the electrical installation

Charge your EV

Optimize your energy consumption

EVlink anti-tripping module: 1-or 3-phase peak controller
RCD Type A-Si to detect 30 mA AC residual current
MCB to provide charging station cable overload protection
MNx: undervoltage release tripping unit (IEC 61851-1 ed.3)
RGBO (option): residual current breaker with overcurrent protection

Watch the video
Commission easily with eSetup
Watch the video
Operate with Wiser

Power Line Communication
Router
EVlink Home Smart
Power: from 3.7 to 11 kW

Home Energy Management System

All-in-one application
Energy consumption dashboard
Charging mode selection

Watch the video

1. Power consumption
2. All-in-one application
3. Energy consumption dashboard
4. Charging mode selection
EcoStruxure™ for eMobility Application

**eMobility for new residential buildings**

**Design a scalable and service-ready infrastructure**

“I want to provide an EV charging infrastructure which is compliant with local regulations, scalable, and service-ready for new residential buildings.”

EcoStruxure for eMobility is a solution ready for the sustainable and efficient buildings of the future. It offers multi-dwelling owners and tenants a user-friendly charging experience with optimized power supply and accurate consumption metering per user for allocation of costs. It is an open, standards-compliant, and service-ready solution.

> EcoStruxure EV Charging Expert

**Load Management System**
- Distribution of available power for all charging stations
- Peak/off-peak hours EV charging management
- Monitoring and control of any EV charging station based on an open protocol (OCPP 1.6-J)

> EVlink Pro AC

**Connected EV charging station**
- Robust design that is rated IP55/IK10, for outdoor or indoor installations
- Embedded protection for power distribution (RCD, iMNx)
- RFID/NFC reader for user authentication
- Standards-compliant:
  - Precision metering (MID meters)
  - Interoperability with supervision solutions (OCPP 1.6-J)
  - Extended EV compatibility (IEC 61851 Ed.3, ISO 15118 ready)
Customer benefits

For home builders designing the EV infrastructure:
- Compliant with local regulations
- Scalable and flexible design
- Open and ready for operations
- Minimized property development costs

For the electrical contractor installing and commissioning the EV infrastructure:
- Reduced installation time
- Guided commissioning for basic or larger infrastructure
- Schneider Electric Partner certification and training program

New residential building solution ready for operations

The eMobility solution is open to Schneider Electric or third-party supervision solutions.

1. Power network
2. 24 VDC
3. Utility supply network
4. Ethernet network
5. Charging stations: EVlink Pro AC
6. Load Management System: EcoStruxure EV Charging Expert
7. Short-circuit protection: C40 A

Outdoor parking with EV charging zone
10 EVlink Pro AC 7.4 kW with embedded MID metering and RCD Type A (30 mA)
Get started with a scalable charging solution that will boost your brand image

I want to offer my employees the opportunity to charge at work while leveraging new charging services I can offer to my customers.

EcoStruxure for eMobility provides a first easy step for business owners to start up electric mobility in their companies while keeping investment, utility costs and power supply fully optimized. Improving the customer experience and satisfying employees driving an electric vehicle, all at the same time.

▶ EcoStruxure EV Charging Expert
Load Management System
- Dynamic distribution of available power among charging stations
- Peak/off-peak hours EV charging management
- Monitoring and control of EV charging stations based on an open protocol (OCPP 1.6-J)

▶ EVlink Pro AC
Connected EV charging stations
- Optimized usage and usability:
  - Reduced maintenance time
  - Robust design (IP55/IK10 rated) for indoor/outdoor installations
  - Customizable charging stations
- Embedded protection for power distribution (RCD, iMNx)
- RFID/NFC reader for user authentication
- Standards-compliant: precision metering (MID meters)
- Flexible and modular:
  - Interoperability with supervision solutions (OCPP 1.6-J)
  - Extended EV compatibility (IEC 61851 Ed.3, ISO 15118 upgradable)
Customer benefits

For building owners:
- Demonstration of sustainability commitments
- Improved employee satisfaction and customer loyalty
- Optimized power availability
- Scalable infrastructure
- In-house operations or delegated to external charge point operator

For electrical contractors:
- Reduced installation time
- Guided commissioning
- Schneider Electric Partner certification and training program

Charging infrastructure for employees or customers driving EVs
Integrate a complete smart EV charging solution and optimize power availability at your sites.

Installing an EV charging solution will boost my employee loyalty and help me meet sustainability targets while increasing the value of my property.

EcoStruxure for eMobility lets building and business owners seamlessly integrate electric mobility at their sites without compromising their power supply. They comply with local regulations while offering a futureproof and convenient solution to electric vehicle drivers at their sites.

**EcoStruxure™ EV Advisor***

Multi-site remote supervision for EV charging infrastructures

- EV driver profile management
- Remote monitoring, control and troubleshooting
- Custom tariff setting
- Analytics and API capability

*Available soon in selected European countries

**EcoStruxure™ EV Charging Expert**

Load Management System

- Dynamic distribution of available power among charging stations
- Peak/off-peak hours EV charging management
- Monitoring and control of EV charging stations based on an open protocol (OCPP 1.6-J)

**EVlink Pro AC**

Connected EV charging station

- Robust IP55/IK10 rated design for outdoor or indoor installations
- Embedded protection for power distribution (RCD, iMNx)
- RFID/NFC reader for user authentication
- Standards-compliant:
  - Precision metering (MID meters)
  - Interoperability with supervision solutions (OCPP 1.6-J)
  - Extended EV compatibility (IEC 61851 Ed.3, ISO 15118 ready)
Customer benefits

**For building owners:**
- Demonstration of sustainability commitments
- Improved employee loyalty
- Minimized upfront costs
- Optimized power availability and reduced energy costs
- Multiple user profiles

**For electrical contractors:**
- Reduced installation time
- Guided commissioning for basic or large scale infrastructure
- Schneider Electric Partner certification and training program

**For operators:**
- Service offer: charge point availability, identification of issues
- Optimized operations thanks to remote diagnosis features and shorter interventions

Multi-site and remote supervision of all the EV infrastructure thanks to EcoStruxure™ EV Advisor
EcoStruxure™ for eMobility Application

**eMobility for Car Parks**

Offer a best-in-class **EV parking experience** and the **benefit** of a future-proof solution to **generate new revenues**

"I want to get a scalable EV-charging solution fully integrated in my parking lot to offer visitors a one-stop service."

With EcoStruxure for eMobility, parking and EV-charging offer a fully integrated one-stop service for visitors increasing customer satisfaction and generating new revenues at the same time.

The combination of high-quality chargers, flexible and scalable solutions and Schneider Electric load management expertise can help you start and quickly grow your own EV-charging business.

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**Cloud-based supervision and parking management system integration**

- eMobility solution can be connected to Charging Station Management System - Schneider Electric or third party - and integrated into parking system managing user access, payment, and more.

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**EcoStruxure™ EV Charging Expert Load Management System**

- Dynamic distribution of available power among chargers
- On-peak/off-peak hours EV charging management

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**EVlink Pro AC**

Wall-mounted or pedestal charging stations with possibility of metal enclosure

- Certified to the highest electrical standards
- Robust design for outdoor or indoor installations (IP55/IK10)
- Embedded precision metering (MID meters)
- RFID/NFC reader for user authentication
- Interoperability with supervision systems (OCPP 1.6-J)
Canalis™
Decentralized electrical distribution with trunking system for EV chargers for indoor parking

- Scalable system
- Easy access to protections (MCB and RCD)
- From 100 A to 1000 A
- Reduced installation time without power switch-off
- Cost-effective from the installation of 5 chargers

Customer benefits

For car park owners:
- Compliance with local regulations
- Minimize development costs
- Offer an EV service as a path to sustainability
- Get a modular, flexible and scalable charging infrastructure ahead of future needs

For car park operators:
- Attract EV drivers and create an additional revenue stream
- Offer visitors a one-stop service
- Optimize power availability and reduce energy costs
- Integration with parking management system
- Get technical support and services for your EV infrastructure

Charging infrastructure for an underground car park with two EV zones
Transition smoothly to an EV fleet and take the road to a more sustainable future

"I want to electrify my fleet with minimal impact on my operations while investing wisely in a scalable EV charging infrastructure."

The EcoStruxure™ for Fleet application enables seamless integration of the electric vehicle charging infrastructure at home, at work and in transit. The solution enables Fleet Managers to optimize their total cost of ownership while increasing employee satisfaction.

1. Design the electrification journey

Consulting services
- Digital diagnostic or in-person analysis
- TCO, ROI, CO₂ emission impact evaluation
- Rollout plan for fleet electrification

2. Implement the EV infrastructure

Project management through to commissioning
- Technical definition and infrastructure design
- Electrical distribution and charging station commissioning
- Test reports

Connected EVlink charging stations
- Intuitive user interfaces
- RFID/NFC reader
- Robust design for outdoor or indoor installations
- Interoperability with supervision systems (OCP 1.6-J)
- IEC 61851 Ed.3, ISO 15118 ready

3. Operate easily with comprehensive services

EcoStruxure™ EV Advisor*

Remote supervision
- Remote monitoring, control, and trouble-shooting
- EV drivers’ profile management
- Custom tariff setting (per site, user, schedule)
- Analytics and API capabilities

Services
- Start/Stop charging sessions
- Search for and book a charger
- Personal data management
- Charge at home kWh-price setting
- Help and hotline services
- Ad-hoc support and maintenance
- Continuous optimization (renewable energy, microgrid solution, cybersecurity enhancement)
- Access to public charge points

*Available soon in selected European countries
Customer benefits

For building owners and facility managers:
- Reduced development and installation costs
- Scalable and flexible design
- Open and ready for operation services
- Optimized power availability and reduced energy costs
- Compliant with local regulations

For fleet managers wanting to electrify their company fleet:
- Optimized CAPEX and ROI
- Lower Total Cost of Ownership
- Supported decision making and change-management processes
- Tracked usage for cost and CO₂ emission reduction
- Scale the EV fleet to your business needs

For EV fleet drivers:
- Friendly user experience thanks to RFID card, dedicated driver’s App, online and hotline support
- Automated reimbursement and billing management
- Quick and easy installation at home

End-to-end solution for fleets meeting sustainability and budget requirements

STEP 1: CONSULTANCY SERVICES
Analyze, plan, design and quote

Scalable and tailored support from small to large fleets
- Public information platform
- Online consulting tools
- Expert consultants

STEP 2: INFRASTRUCTURE IMPLEMENTATION
Build and install

Project and processes management
- Follow-up and coordination of project implementation through to commissioning
- Coordination of deliveries and suppliers
- Onboarding of chargers
- Test reports

Technical and infrastructure design
- Remote or on-site analysis
- Design of the infrastructure and architecture of the solution
- BOM and supplier definition

EcoStruxure™ for eMobility
- Apps, Analytics and Services
- Edge-Control Offers
- Connected Products

Efficient charge point operation
- Charge point operation and monitoring
- RFID/NFC reader and user management
- Customer services: support, trouble-shooting, maintenance and infrastructure enhancements
- Comprehensive charging experience

Schneider Electric digital innovation, at every level

AT HOME
AT WORK
AT PUBLIC
Smart Charging refers to a system which is able to monitor, manage and eventually control the use of EV charging devices with the aim of optimizing energy consumption.

As the adoption of EVs grows worldwide at a phenomenal rate, the estimates from BloombergNEF(1) are that 30% of vehicles are expected to be electric by 2030.

The expansion of the charging infrastructure will add complexity to the grids and will push the existing power distribution networks beyond their capacity, thus requiring expensive infrastructure upgrades.

To understand the need of Smart Charging, let’s first look at some of the existing scenarios for EV charging setups:

In a scenario without any energy / load management setup, all plugged-in EVs start to charge simultaneously and at max power. The additional energy of EV charging on top of the normal building loads will result in overload and possibly exceed the Maximum Import Capacity (MIC). This could result in high fines or penalties from the grid operator.

To avoid the above scenario, standard load management practices are already adopted in most setups.

(1) BloombergNEF - Electric Vehicle Outlook 2022
Load management can be static or dynamic, meaning that a defined threshold (power limit) is set and only the remaining available power for EV charging is distributed among the connected EVs. Also, EVs can be charged at pre-defined times to optimize off peak electricity tariffs. These standard load management practices are sometimes effective but the growing adoption of EVs, which has increased the impact on the existing power distribution systems, provides a lot of scope to further optimize the EV charging infrastructure.

**Smart Charging** goes further than a standard load management setup. It is an intelligent system with proactive logic to schedule and forecast, and therefore provides an optimal charging solution.

In a nutshell, each EV plugged into the charging station charges with a specific charging profile. It not only takes into the account the needs of the EV driver (e.g., departure time etc.) but also respects the power limits of the entire installation.

On top of this, a smart charging system gives significant OPEX savings to the infrastructure owner by optimizing the locally generated renewable energy (e.g., PV installation on the building) and using the dynamic electricity tariffs for cost efficient charging.

**Benefits of Smart Charging**

**User requirement**
- Accommodate individual needs of EV drivers. For example, departure time, tariff preferences.

**Infrastructure reliability**
- Integrate EV charging while keeping the MV/LV installations intact.

**Dynamic energy tariffs**
- Savings in OPEX through price negotiation from multiple energy markets to balance supply and demand.

**Renewable energy self consumption**
- Optimize self consumption of locally generated power. For example, PV installation on the building.

A smart charging solution is able to adapt, the charging strategy to both the needs of the user of the EV and the power grid in an intelligent and flexible way. Thus, a smart charging system will allow flexibility, optimized energy consumption, infrastructure scalability and cost efficiency.
eMobility solutions
Panorama per Applications

APPs, ANALYTICS AND SERVICES
Wiser

EDGE CONTROL
EVlink Home anti-tripping system

CONNECTED PRODUCT
EVlink Home
EVlink Home Smart

RESIDENTIAL
Single Family Home

BUILDINGS
Multifamily Home

eMobility Services
EcoStruxure™ EV Advisor*

EcoStruxure™ EV Charging Expert

EVlink Pro AC
EVlink Pro AC Metal

Electrical distribution for eMobility
From grid to EV

iMnx
Undervoltage release tripping unit

Acti9 A-Si type
Earth leakage protection

Canalis™ busbar trunking system
EVlink terminal distribution kit

*Available soon in selected European countries
Remote supervision for installers, fleet operators, and charge point operators, to easily commission, monitor, and control the EV charging infrastructure.

A charging load management system that helps you to efficiently control your EV infrastructure and smartly distribute available power to your charging stations.

Maximize the performance of your EV infrastructure and keep your assets running in optimum condition throughout the whole lifecycle, from consulting through to modernization of your park of charging stations.

EVlink Pro AC
EVlink Pro AC Metal
EVlink Pro DC 120-180kW

Images of the offers are not contractual.
EVlink™ Home and Home Smart

Electric Vehicle charging stations and accessories

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Cables for EVlink™ Home and Pro AC ranges ............... p. 46
EVlink Home and Home Smart

EVlink™ Home

Characteristics

Charging station offer
- Charging power: 3.7 kW - 7.4 kW single-phase and 11 kW three-phase power supply
- Maximum charging current can be adjusted from 6 A to 32 A
- T2 socket outlet with or without shutter
- Attached cable (5m) with T2 connector

Power supply network
- 230V +/- 10% single-phase – 50 Hz +/- 10% for 3.7 and 7.4 kW charging stations
- 400V +/- 10% three-phase – 50 Hz +/- 10% for 11 kW charging stations
- Internal protection: 6 mA DC filter
- Suitable earthing systems: TT, TN-S, TN-C-S

Mechanical and environmental characteristics
- Ingress protection code: IP55 attached cable version; IP54 socket version
- Impact protection code: IK10
- Operating temperature: -30°C to +50°C
- Storage temperature: -40°C to +85°C
- Relative humidity 5% to 95%
- Altitude < 2000 m
- Attached cable length: 5 m for versions supporting it
- Dimension 282*409*148 mm / 11*16*6 in. (without cable)
- Weight: 3.7 – 7.4 kW approx. 4.5 kg / 11 kW approx. 5.6 kg

Easy to install and commission
- Wall mounting

Energy Management
- Exclusive energy management options: real-time maximum charging current control (with the addition of an external anti-tripping system)
- Communication Power Line Carrier with Home Anti-tripping system

Access control modes
- Free access

Services offer
- Worldwide network of installers providing on-site installation and commissioning
- Worldwide customer care center

Certification
EVlink Home has obtained the test certificate, establishing compliance with the IEC 61851-1 standard.

Standards
EN 61851-1 Ed3.0 (2019)
Charging station references

**EVlink Home**

The charging station operates autonomously. It has dedicated protective devices.

- **Installation**: by an electrician
- **Location**: residential, private usage

### Practical information

The charging station operates autonomously. It has dedicated protective devices.

- **Installation**: by an electrician
- **Location**: residential, private usage

### Protections and options with EVlink Home

#### Description

<table>
<thead>
<tr>
<th>Charging</th>
<th>Single-phase</th>
<th>Three-phase</th>
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<tr>
<td>Rated Power - Current</td>
<td>3.7 kW - 16 A</td>
<td>7.4 kW - 32 A</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Protection</th>
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<tbody>
<tr>
<td>Circuit breaker (overcurrent) (1)</td>
<td>20 A Curve C</td>
<td>40 A Curve C</td>
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<td>RCD (residual current) (1)</td>
<td>30 mA A-Si Type (2)</td>
<td>30 mA A-Si Type (2)</td>
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<tr>
<td>Under voltage tripping auxiliary (3)(4)</td>
<td>iMNX</td>
<td>iMNX</td>
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</tbody>
</table>

(1) References to be defined and local availability to be checked by Schneider Electric front offices.
(2) In accordance with the electrical installation standard HD 60364-7-722:2016. Refer to local regulation.
(3)(4) iMNX is mandatory in case of charging station damage following a downstream short circuit.

### EVlink Home

<table>
<thead>
<tr>
<th>References</th>
<th>Number of phases</th>
<th>Type of socket</th>
<th>Power kW</th>
<th>Output current</th>
<th>Embedded protection</th>
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<tr>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>EVH4S03N2</td>
<td>1PH</td>
<td>T2</td>
<td>3.7</td>
<td>16 A</td>
<td>with 6 mA DC filter</td>
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<tr>
<td>EVH4S07N2</td>
<td>1PH</td>
<td>T2</td>
<td>7.4</td>
<td>32 A</td>
<td>with 6 mA DC filter</td>
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<tr>
<td>EVH4S11N2</td>
<td>3PH</td>
<td>T2</td>
<td>11</td>
<td>16 A</td>
<td>with 6 mA DC filter</td>
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<td>T2 with shutters</td>
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<td>T2S</td>
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<td>16 A</td>
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<td>1PH</td>
<td>T2S</td>
<td>7.4</td>
<td>32 A</td>
<td>with 6 mA DC filter</td>
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<tr>
<td>EVH4S11N4</td>
<td>3PH</td>
<td>T2S</td>
<td>11</td>
<td>16 A</td>
<td>with 6 mA DC filter</td>
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<td>With attached 5 m³ cable and T2 connector</td>
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<td>EVH4S03NC</td>
<td>1PH</td>
<td>-</td>
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<td>with 6 mA DC filter</td>
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**EVlink Home with TIC**

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For France only: TIC: Anti-tripping module connected to the energy meter (Linky) ; compatible only with the TIC "Historic" mode.

### Practical information

The charging station operates autonomously. It has dedicated protective devices.

- **Installation**: by an electrician
- **Location**: residential, private usage

####参考信息

The charging station operates autonomously. It has dedicated protective devices.

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### EVlink Home

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For France only: TIC: Anti-tripping module connected to the energy meter (Linky) ; compatible only with the TIC "Historic" mode.

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####参考信息

The charging station operates autonomously. It has dedicated protective devices.

- **Installation**: by an electrician
- **Location**: residential, private usage
EVlink Home and Home Smart

Characteristics

Charging station offer
- Charging power: 3.7 kW - 7.4 kW single-phase and 11 kW three-phase power supply
- Maximum charging current can be adjusted from 6 A to 32 A
- T2 socket outlet with or without shutter
- Attached cable (5m) with T2 connector

Power supply network
- 230V +/- 10% single-phase – 50 Hz +/- 10% for 3.7 and 7.4 kW charging stations
- 400V +/- 10% three-phase 50 Hz +/- 10% for 11 kW charging stations
- Internal protection: 6 mA DC filter
- Suitable earthing systems: TT, TN-S, TN-C-S

Mechanical and environmental characteristics
- Ingress protection code: IP55 attached cable version; IP54 socket version
- Impact protection code: IK10
- Operating temperature: -30°C to +50°C
- Storage temperature: -40°C to +85°C
- Relative humidity: 5% to 95%
- Altitude < 2000 m
- Attached cable length: 5 m for versions supporting it
- Dimension: 282*409*148 mm / 11*16*6 in. (without cable)
- Weight: 3.7 – 7.4 kW approx. 4.5 kg / 11 kW approx. 5.6 kg

Easy to install and commission
- Wall mounting
- eSetup Smart phone commissioning application (to pair with Home network)

Energy Management
- Energy management exclusive options: real-time maximum charging current control (with the addition of an external anti-tripping system)
- Delayed charging and current limitation can also be controlled by supervision or by the home management system (over OCPP)
- Interface with an external MID energy meter for consumption billing

Versatile Connection
- Communication Power Line Carrier with Home Anti tripping system
- OCPP 1.6J to connect to Wiser application
- Wi-Fi and Ethernet RJ45
- RS485 port serial Modbus for external MID meter

Smart Phone application
- Phone application to perform charge scheduling, and monitor charge consumption and the carbon footprint
- Interoperable with Schneider Electric Home Energy Management system to optimize home consumption.

Access control modes
- Free access

Services offer
- Worldwide network of installers providing on-site installation and commissioning
- Worldwide customer care center

Certification
EVlink Home has obtained the test certificate, establishing compliance with the IEC 61851-1 standard.

Standards
EN 61851-1 Ed3.0 (2019)
Charging station references

**EVlink Home Smart**

**EVlink Home Smart**

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For France only : TIC- Anti-tripping module connected to the energy meter (Linky) ; compatible only with the TIC "Historic" mode.

**Protection and options with EVlink Home Smart**

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<tr>
<th>Description</th>
<th>Single-phase</th>
<th>Three-phase</th>
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<tbody>
<tr>
<td>Rated Power - Current</td>
<td>3.7 kW - 16 A</td>
<td>7.4 kW - 32 A</td>
</tr>
<tr>
<td>Protection</td>
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<tr>
<td>Circuit breaker (overcurrent)</td>
<td>20 A Curve C</td>
<td>40 A Curve C</td>
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<tr>
<td>RCD (residual current)</td>
<td>30 mA A-Si Type</td>
<td>30 mA A-Si Type</td>
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<tr>
<td>Under voltage tripping auxiliary</td>
<td>iMNX</td>
<td>iMNX</td>
</tr>
</tbody>
</table>

(1) References to be defined and local availability to be checked by Schneider Electric front offices.
(2) In accordance with the electrical installation standard HD 60364-7-722:2016. Refer to local regulation.
(3)(4) iMNX is mandatory in case of charging station damage following a downstream short circuit.

**Wiser**

**A closer look at the Wiser application for EV owners**

Create your own charging experience

**Easy to sign up:**
- Download Wiser on Appstore and Google Store
- Scan your charger QR code to pair your charger
- Select your car and your DSO

**Power Management:**
- Adapt charge to available power

**Schedule and adapt:**
- Plan your charging time
- Adjust your energy mix
- Start the charge, and travel

**History:**
- Track your charging sessions and better understand the energy consumption related to your EV.
Range accessories

Charging stations dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight with socket outlets</th>
<th>Weight with attached cable</th>
</tr>
</thead>
<tbody>
<tr>
<td>T2/T2S - 3.7 / 7.4 kW</td>
<td>≈ 4.5 kg (9.92 lb)</td>
<td>≈ 8.8 kg (15.43 lb)</td>
</tr>
<tr>
<td>T2/T2S - 11 kW</td>
<td>≈ 5.6 kg (12.34 lb)</td>
<td>≈ 9.9 kg (17.63 lb)</td>
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</tbody>
</table>

Accessory references

EVlink Cable for T2 and T2S charging station

To connect the car to the charging station. Available in different lengths with a T2 connector.

Additional information

<table>
<thead>
<tr>
<th>充电站技术文档</th>
<th>语言</th>
<th>参考文献</th>
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</thead>
<tbody>
<tr>
<td>EVlink Home and EVlink Home Smart User Manual (1)</td>
<td>EN / FR / ES / DE</td>
<td>GEX4292700</td>
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<tr>
<td>EVlink Home anti-tripping system 1P User Manual (1)</td>
<td>EN / FR / ES / DE</td>
<td>JYT9298700</td>
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<tr>
<td>EVlink Home anti-tripping system 3P User Manual (1)</td>
<td>EN / FR / DE</td>
<td>JYT4921902</td>
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</table>

eSetup is an application for installers and electricians to commission EVlink Home Smart. It helps save time on installation and commissioning; everything can be done with an app and simple interface. Get a charge details report and maintenance report from the app.

(1) Delivered with the product.

Download the above documents on Schneider Electric website.
### Characteristics

#### Main function*
- Home Anti-tripping is a power load management system that adapts the power supplied to charge the car continuously, taking home consumption into account.
- The power availability is calculated by the Home Anti-tripping System by comparing the utility power limit and the home consumption gathered by a current transformer positioned on the bottom of the main circuit breaker.

#### Power supply network and electrical characteristics
- 220/230 V (+/- 10%) 50 Hz (+/- 10%)
- Rated power 4W
- Overvoltage category: III, Pollution degree: 2
- Insulation degree: reinforced insulation

#### Settings
Possible current value settings:
- 3P: 16A, 20A, 25A, 32A, 40A and 50A
- 1P: 16A, 20A, 25A, 32A, 40A and 50A

#### Communication
- Communication Power Line Carrier with EVlink Home range charging stations

#### Mechanical and environmental
- Dimension 70.4 x 93.2 x 68.8 mm
- Weight 196 g
- Mounting type: Top-hat rail mounting
- Nominal temperature -30°C to +50°C

#### Standards
- EN 61010-1-2010, EN 61326-1-2013

*According to the power available for the electrical installation, especially if the home is equipped with a heat pump. Minimum recommendation: 25A 3P+N.
EVlink™ Pro AC and Pro AC Metal

Electric Vehicle charging stations and accessories

EVlink™ Pro AC .............................................................. p. 34

EVlink™ Pro AC Metal ...................................................... p. 38

Customization ............................................................... p. 43

Range accessories and spare parts .................................... p. 44

Cables for EVlink™ Home and Pro AC ranges ..................... p. 46
EVlink™ Pro AC

**Characteristics**

**Power supply network**
- 220 - 240 V AC single-phase – 50/60 Hz for 7.4 kW charging stations
- 380 - 415 V AC three-phase – 50/60 Hz for 11 and 22 kW charging stations

**Diagram of the earthing system**
- TT, TN-S, TN-C-S
- IT (Compatible IT on 1-phase - some single-phase vehicles may require the addition of an isolation transformer; Compatible IT with additional isolation transformer on the 3-phase power supply)

**Rated charging current**
- T2S socket outlet with shutters and silver-plated contacts: 16 A to 32 A (factory setting: 32 A)
- TE or TF domestic socket-outlet: 10 A
- T2 attached cable, length 5 meters: 16 A to 32 A
- Socket-outlet on the front

**Mechanical and environmental characteristics**
- Ingress protection code: suitable for indoor and outdoor use
  - IP55 with T2S socket-outlet
  - IP55 with attached cable
  - IP54 with domestic socket
- Impact protection code: IK10
- Ambient air temperature for operation: -30°C to +50°C (+40°C for EVlink Pro AC with embedded RCD type Asi)
- Ambient air temperature for storage: -40°C to +80°C (+70°C for EVlink Pro AC with embedded RCD type Asi)
- Energy management options:
  - via digital inputs: limited current, postponed/suspended charge,
  - dynamic energy management combined with TIC interface with French utility meter or universal energy meter
- EV presence detection via digital input

**Access control modes**
- Free access
- User authentication through RFID or NFC badge
  - NFC 13.56 MHz reader compatible with type 1, 2, 4 and 5 badges
  - RFID reader:
    - conforming to ISO/IEC 14443 A and B and ISO/IEC 15693 protocols,
    - compatible with Mifare Ultralight, Mifare Classic, Mifare Plus

**Embedded protection and metering**
(depending on commercial references)
- Earth leakage protection: RDC-DD 6 mA + RCD type Asi 30 mA or RCD type B-EV
- Undervoltage tripping auxiliary MNx
- MID energy meter
- Metering board and CTs 1% accuracy

**Easy to install and commission**
- Wall mounting or floor standing
- 1 or 2 charging stations on the same pedestal
- Parameter setting through eSetup app via Bluetooth or EcoStruxure EV Charging Expert

**Versatile connection to a supervision**
- Wired Ethernet: 2 ports (1 for daisy chain)
- Connection through embedded or external 3G/4G modem as an accessory
- OCPP 1.6 Json Smart Charging interface

**Services**
- Worldwide customer care center
- Additional 1- or 3-year Warranty Extension
- On-site or remote commissioning support
- Services Plan
- Schneider Electric manufactured spare parts
- Advanced on-site training
- Worldwide network of partners providing on-site installation, commissioning and maintenance services

**Certification**
EVlink Pro AC has been certified according the IEC 61851-1 ed3.0 standard by the DEKRA certification body

**Standards**
- IEC/EN 61851-1 Ed 3.0
- IEC/EN 62196-1 Ed 2.0 - IEC/EN 62196-2 Ed 1.0
- IEC 60364-7-722 Ed 2.0
- EMC IEC 61851-21-2
- EMC EN 301 489-1 V2.1.1 - EN 301 489-17 V3.1.1
- Upgradable to ISO 15118 Plug and Charge EV Ready / ZE Ready

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- Advanced on-site training
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## Charging station commercial references

### EVlink Pro AC

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<th>Commercial references</th>
<th>Type of socket</th>
<th>Domestic socket</th>
<th>Output current</th>
<th>Power kW</th>
<th>Number of phases</th>
<th>Embedded protection</th>
<th>Embedded protection (1)</th>
<th>Protection supplied</th>
<th>Embedded MID meter (2)</th>
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<tbody>
<tr>
<td>EVB3S07NC0</td>
<td>Alt T2 (1)</td>
<td>-</td>
<td>32 A</td>
<td>7.1</td>
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<td>RDC-DD 6 mA</td>
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<td>EVB3S07N4AM (2)</td>
<td>T2S</td>
<td>-</td>
<td>32 A</td>
<td>7.4</td>
<td>1PH</td>
<td>RDC-DD 6 mA + RCD Asi 30 mA</td>
<td>-</td>
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</tr>
<tr>
<td>EVB3S07N4A</td>
<td>T2S</td>
<td>-</td>
<td>32 A</td>
<td>7.4</td>
<td>1PH</td>
<td>RDC-DD 6 mA + RCD Asi 30 mA</td>
<td>-</td>
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<tr>
<td>EVB3S07N4EA</td>
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<td>-</td>
<td>32 A</td>
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<td>RDC-DD 6 mA + RCD Asi 30 mA</td>
<td>-</td>
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<tr>
<td>EVB3S07NCA</td>
<td>Alt T2 (3)</td>
<td>-</td>
<td>32 A</td>
<td>7.4</td>
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<td>RDC-DD 6 mA + RCD Asi 30 mA</td>
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<tr>
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<td>16 A</td>
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<tr>
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<td>22</td>
<td>3PH</td>
<td>RDC-DD 6 mA + RCD Asi 30 mA</td>
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<td>EVB3S22N2CA</td>
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<td>22</td>
<td>3PH</td>
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<td>EVB3S22N4E4A</td>
<td>T2S TE</td>
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<td>3PH</td>
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<tr>
<td>EVB3S22NC2B</td>
<td>Alt T2 (6)</td>
<td>-</td>
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<td>EVB3S22N4EB</td>
<td>T2S TE</td>
<td>-</td>
<td>32 A</td>
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<td>3PH</td>
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</tr>
<tr>
<td>EVB3S22N4FB</td>
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<td>22</td>
<td>3PH</td>
<td>RDC-DD 6mA</td>
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<td>-</td>
<td>-</td>
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<tr>
<td>EVB3S22N41</td>
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<td>22</td>
<td>3PH</td>
<td>RDC-DD 6mA</td>
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</tr>
<tr>
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<td>T2S</td>
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<td>32 A</td>
<td>22</td>
<td>3PH</td>
<td>RDC-DD 6 mA</td>
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</tr>
<tr>
<td>EVB3S22N40EM</td>
<td>T2S TF</td>
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<td>32 A</td>
<td>22</td>
<td>3PH</td>
<td>RDC-DD 6 mA</td>
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<tr>
<td>EVB3S22N40FM</td>
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<td>3PH</td>
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</tr>
<tr>
<td>EVB3S22N40C</td>
<td>Alt T2 (7)</td>
<td>-</td>
<td>32 A</td>
<td>22</td>
<td>3PH</td>
<td>RDC-DD 6 mA</td>
<td>-</td>
<td>-</td>
<td>Yes</td>
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<tr>
<td>EVB3S22N40C0</td>
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<td>32 A</td>
<td>22</td>
<td>3PH</td>
<td>-</td>
<td>-</td>
<td>RCD B EV + MNx</td>
<td>Yes</td>
</tr>
</tbody>
</table>

1) Cable for T2S charger available as an accessory
2) Includes 1 RFID badge
3) Recommended for metallic charger, this specific charging station only measures the power consumption of the electric vehicle
4) An MNx under voltage tripping auxiliary is mandatory in case of charging station damage following a downstream short circuit
5) Attached cable with T2 connector
6) MID certified energy meter, IEC accuracy class 1, B (active)
7) All 3-phase references can be wired as 1-phase except those with embedded RCDs

### Protections with EVlink Pro AC

<table>
<thead>
<tr>
<th>Description</th>
<th>Single-phase</th>
<th>Three-phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charging</td>
<td>7.4 kW - 32 A (2)</td>
<td>11 kW - 16 A (2)</td>
</tr>
<tr>
<td>Protection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Circuit breaker (overcurrent) (3)</td>
<td>40 A Curve C</td>
<td>20 A Curve C</td>
</tr>
<tr>
<td>Delayed start</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relay</td>
<td>With normally open contact (3)</td>
<td>With normally open contact (3)</td>
</tr>
<tr>
<td>Temporary current limitation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relay</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) References to be defined and local availability to be checked by Schneider Electric front offices.
(2) With or without domestic socket.
(3) EVlink Pro AC setting can be changed to "normally closed" if necessary, with the eSetup commissioning app.
Practical information

EVlink Pro AC and Pro AC Metal

EVlink Pro AC dimensions

With T2S socket outlet

- ≈ 7.2 kg (15.43 lb)

With T2 attached cable

- ≈ 10 kg (22.05 lb)

Cable entry from above, below or through the wall

530 mm
21 in.

317 mm
12 in.

133 mm
5 in.

110 mm
4 in.

152.8 mm
6 in.

410 mm
16 in.

110 mm
5 in.

Ø 6.5 mm
0.25 in.

Ø 8.5 mm
0.33 in.

1,300...1,450 mm
51...57 in.

Additional information

<table>
<thead>
<tr>
<th>Charging station technical document</th>
<th>Language</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Guide(1)</td>
<td>EN / FR</td>
<td>NNZ1940301-00</td>
</tr>
<tr>
<td>EVlink Pro AC troubleshooting guide</td>
<td>EN</td>
<td>JYT6692101</td>
</tr>
<tr>
<td>Technical specifications OCPP connectivity guide</td>
<td>EN</td>
<td>GEX1969200</td>
</tr>
<tr>
<td>EVlink Pro AC spare parts replacement</td>
<td>EN</td>
<td>GEX2273501</td>
</tr>
<tr>
<td>EVlink Pro AC spare parts replacement for Standards</td>
<td>EN</td>
<td>GEX4591201</td>
</tr>
<tr>
<td>Technical specifications MODBUS connectivity guide</td>
<td>EN</td>
<td>GEX1969300</td>
</tr>
<tr>
<td>EVlink Pro AC Preventive Maintenance guide</td>
<td>EN</td>
<td>GEX8681300</td>
</tr>
<tr>
<td>EVlink Pro AC Cybersecurity guide</td>
<td>EN</td>
<td>GEX5261101</td>
</tr>
</tbody>
</table>

eSetup is an application for installers and electricians to commission EVlink Pro AC. It helps to save time on installation and commissioning: everything can be done with an app and simple interface. Get a charge details report and maintenance report from the app.

(1) Delivered with the product.

Download the above documents on Schneider Electric website.
Practical information

EVlink Pro AC Metal dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Dimensions (mm)</th>
<th>Dimensions (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FS1CP: floor standing 1 charge point</td>
<td>1360 x 53.5 x 390</td>
<td>53.5 x 14 x 15.3</td>
</tr>
<tr>
<td>FS2CP: floor standing 2 charge points</td>
<td>180.3 x 7.1 x 390</td>
<td>7.1 x 0.3 x 15.3</td>
</tr>
<tr>
<td>WM1CP: wall mounted 1 charge point</td>
<td>230 x 7.1 x 390</td>
<td>9 x 0.3 x 15</td>
</tr>
</tbody>
</table>

EVlink Pro AC

- ≈ 7.2 kg (15.43 lb)
- WM1 CP ~ 26 kg (79.36 lb)
- FS 1CP ~ 40 kg (134.48 lb)
- FS 2CP ~ 61 kg (176.37 lb)

EVlink Pro AC Metal assembly time

<table>
<thead>
<tr>
<th>Model</th>
<th>Average assembly time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor standing 2 charge points</td>
<td>90 to 110 min</td>
</tr>
<tr>
<td>Floor standing 1 charge point</td>
<td>50 to 70 min</td>
</tr>
<tr>
<td>Wall mounted 1 charge point</td>
<td>50 to 70 min</td>
</tr>
</tbody>
</table>

Additional information

<table>
<thead>
<tr>
<th>Charging station technical document</th>
<th>Language</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Guides (1)</td>
<td>EN / FR</td>
<td>Instruction Guide EVlink Pro AC FS2CP: JYT24397</td>
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<td>Instruction Guide EVlink Pro AC FS1CP: JYT24398</td>
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<tr>
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<td></td>
<td>Instruction Guide EVlink Pro AC WM1CP: JYT24399</td>
</tr>
<tr>
<td>EVlink Pro AC trouble shooting guide</td>
<td>EN</td>
<td>JYT6692101</td>
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<tr>
<td>Electrical diagram guide</td>
<td>EN</td>
<td>GEX2008002</td>
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<tr>
<td>eSetup commissioning app</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) Delivered with the product.

Download the above documents on Schneider Electric website.
The EVlink Pro AC Metal charger is sold as a kit and it is available as:
• Wall mounted 1 charge point
• Floor standing 1 or 2 charge points

The EVlink Pro AC Metal design enables any configuration and can be installed by a single person. The necessary components for assembling the EVlink Pro AC Metal are the following:
1. A metallic kit enclosure:
   - wall mounted for 1 charge point or
   - floor standing for 1 charge point or
   - floor standing for 2 charge points
2. An EVlink Pro AC charger to be installed inside the metal enclosure
3. Optional: Kaedra enclosure and/or Thalassa enclosure(s) to be mounted inside the metal enclosure for hosting the electrical protection

The power supply network is the same as the EVlink Pro AC.

Mechanical and environmental characteristics:
• Same as EVlink Pro AC
• IP3X Metal enclosure
• IP65 Kaedra enclosure
• IP66 Thalassa enclosure

Access control modes are the same as EVlink Pro AC.

Services include:
• Worldwide customer care center
• Additional 1 or 3 years Warranty Extension
• On-site or remote commissioning support
• Services Plan
• Schneider Electric manufactured spare parts
• Advanced onsite training
• Worldwide network of partners providing on-site installation, commissioning and maintenance services

Standards:
IEC/EN 61851-1 ed.3.0
EMC IEC 61851-21-2
IEC/EN 62196-1 ed.2.0
IEC/EN 62196-2 ed.1.0
Enclosures IEC/EN 60529

ROHS compliant
Reach compliant
EoLi: End Of Life Process
Product Environmental Profile compliant
EVlink™ Pro AC Metal

EVlink Pro AC Metal selection criteria

➤ EVlink Pro AC metallic kits
All EVlink Pro AC charging stations can be assembled in any metallic kit.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVA1RWKS1</td>
<td>EVlink metallic kit for AC wall mounted 1 charge point</td>
</tr>
<tr>
<td>EVA1RFKS1</td>
<td>EVlink metallic kit for AC floor standing 1 charge point</td>
</tr>
<tr>
<td>EVA1RFKS2</td>
<td>EVlink metallic kit for AC floor standing 2 charge points</td>
</tr>
</tbody>
</table>

➤ EVlink Pro AC with embedded MID meter
A specific EVlink Pro AC commercial reference is available to measure the power consumption of the electric vehicle only:

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVB3S22N40MR</td>
<td>Protection supplied: RCD B EV+MNx, MID inside Yes</td>
</tr>
</tbody>
</table>

➤ Enclosures
Depending on the protection chosen to be embedded into the EVlink Pro AC Metal charger, the installation of an enclosure (Kaedra or Thalassa) may be necessary. Refer to the configuration tables on the next pages.

<table>
<thead>
<tr>
<th>Part number</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>Kaedra 13960</td>
<td>No terminals</td>
</tr>
<tr>
<td>Thalassa EVA1RFKES</td>
<td>25 and 35 mm², 1 Telequick plate, 2 DIN rail 240 mm max, 4 fixing brackets, Cable glands: 2xM32, 1xM12, 1x5G25/5G36</td>
</tr>
</tbody>
</table>
## EVlink Pro AC Metal

**Floor standing 1 charge point or Wall mounted 1 charge point**

Designed to be handled, assembled and installed by only one person.

The necessary components for assembling the EVlink Pro AC Metal are the following:

- A metallic kit enclosure: wall mounted for 1 charge point or floor standing for 1 charge point
- EVlink Pro AC charger to be installed inside the metal enclosure
- Optional: Kaedra enclosure to be mounted inside the metal enclosure for hosting the electrical protection

<table>
<thead>
<tr>
<th>EVlink Pro AC reference</th>
<th>Embedded in the EVlink Pro AC</th>
<th>To be installed in 1 Kaedra (optional)</th>
<th>To be installed in the distribution board</th>
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</thead>
<tbody>
<tr>
<td>EVB3S22N40MR</td>
<td>MID meter, MNx, RCD(1) per charge point, MNx, RCD(2) per charge point, SPD(3)</td>
<td>1 Supplied(4) 1 B-EV Type Supplied(4)</td>
<td>3 only if SPD 1(5) - 1(5) -</td>
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<tr>
<td>EVB3S22N4A or EVB3S22N4B or EVB3S22NCA or EVB3S22NCB or EVB3S22N4EB or EVB3S22N4FB or EVB3S22N4EA</td>
<td>- 1 -</td>
<td>1 Asi Type</td>
<td>1 - - -</td>
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<tr>
<td>EVB3S22N40M or EVB3S22N40EM or EVB3S22N40FEM</td>
<td>1 - -</td>
<td>1 Supplied(4) 1 Asi Type</td>
<td>1 - - - 1(5) -</td>
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<tr>
<td>EVB3S307N40M or EVB3S307N40EM</td>
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<td>1 Supplied(4) 1 Asi Type</td>
<td>1 - - - 1(5) -</td>
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<tr>
<td>EVB3S22N4 or EVB3S22N4E or EVB3S22NC0</td>
<td>- 1 - -</td>
<td>1 Asi Type</td>
<td>1 - - -</td>
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<td>EVB3S307N0C0</td>
<td>- 1 - -</td>
<td>1 Asi Type</td>
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<tr>
<td>EVB3S11N4A or EVB3S11NCA</td>
<td>- 1 - 1 Asi Type</td>
<td>- 1 - -</td>
<td>3 only if SPD 1(5) -</td>
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<tr>
<td>EVB3S11N4FB</td>
<td>- 1 - 1 B-EV Type</td>
<td>- 1 - -</td>
<td>3 only if SPD 1(5) -</td>
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<tr>
<td>EVB3S07N4A or EVB3S07N4C0A or EVB3S07N4EC0A</td>
<td>- 1 - 1 Asi Type</td>
<td>- 1 - -</td>
<td>3 only if SPD 1(5) -</td>
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<tr>
<td>EVB3S07N4AM or EVB3S07N4CAM or EVB3S07N4EM</td>
<td>1 1 1 Asi Type</td>
<td>- 1 - -</td>
<td>3 only if SPD 1(5) -</td>
</tr>
<tr>
<td>EVB3S22N41 or EVB3S22N4E1</td>
<td>- - - 1 1 Asi Type</td>
<td>1 - - - 1(5) -</td>
<td></td>
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<tr>
<td>EVB3S307N41 or EVB3S307N4E1</td>
<td>- - - 1 1 Asi Type</td>
<td>1 - - - 1(5) -</td>
<td></td>
</tr>
</tbody>
</table>

(1) Optional. Surge Protection Device (SPD): a lightning strike near a building or overhead supply lines suddenly increases the voltage from 230 V to 3 or 6 kV which might destroy electronic components. Our surge protection devices can damp the spike down to approximately 15 kV which is the value most connected appliances can withstand. It helps to reduce damage to your valuable possessions by installing surge protection devices. One surge arrester per socket is recommended for high keraunic levels, or mandatory if required by local regulations

(2) Supplied with EVlink Pro AC

(3) MCB (miniature circuit breaker) for control circuit protection: 1P+N 4 A C 6 kA/10 kA

(4) MCB per charge point: 3P+N 40 A C 6 kA/10 kA

(5) MCB per charge point: 3P+N 20 A C 6 kA/10 kA

(6) MCB per charge point: 1P+N 40 A C 6 kA/10 kA

(7) RCD residual current device 30 mA type Asi or type B EV

(8) RCD control circuit: 1P+N 25 A 30 mA type AC, mandatory for TT network; strongly recommended for TNC / TNS network
Floor standing 2 charge points 1 cable entrance
Designed to be handled, assembled and installed by only one person.

The necessary components for assembling the EVlink Pro AC Metal are the following:

- A metallic kit enclosure: floor standing for 2 charge points
- An EVlink Pro AC charger to be installed inside the metal enclosure
- Optional: Kaedra enclosure and/or Thalassa enclosure(s) to be mounted inside the metal enclosure for hosting the electrical protection

### EVlink Pro AC Metal selection criteria

**Floor standing 2 charge points 1 cable entrance**

<table>
<thead>
<tr>
<th>Reference</th>
<th>Embedded in the EVlink Pro AC</th>
<th>To be installed in 2 Kaedra (optional)</th>
<th>To be installed in Thalassa</th>
<th>To be installed in the distribution board</th>
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</thead>
<tbody>
<tr>
<td>2 x EVB3S2240MR</td>
<td>2 - - 2 Supplied(2)</td>
<td>2 Asi Type</td>
<td>2 (16)</td>
<td>2</td>
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<tr>
<td>2 x EVB3S22N40M or EVB3S22NC0M or EVB3S22N40EM or EVB3S22N40FM</td>
<td>2 - - 2 Supplied(2)</td>
<td>2 Asi Type</td>
<td>2 (16)</td>
<td>-</td>
</tr>
<tr>
<td>2 x EVB3S7N40M or EVB3S7N40EM</td>
<td>2 - - 2 Supplied(2)</td>
<td>2 Asi Type</td>
<td>2 (16)</td>
<td>-</td>
</tr>
<tr>
<td>2 x EVB3S22N4 or EVB3S22NC</td>
<td>2 - - 2 Asi Type</td>
<td>2 (16)</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>2 x EVB3S07NC0</td>
<td>2 - - 2 Asi Type</td>
<td>2 (16)</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>2 x EVB3S22NA or EVB3S22NB or EVB3S22NCA or EVB3S22NBC or EVB3S22NCE or EVB3S22NCEM or EVB3S22NCFB or EVB3S22NCFB</td>
<td>2 - - 2 Asi Type</td>
<td>2 (16)</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>2 x EVB3S11NA or EVB3S11NC or EVB3S11NFB</td>
<td>2 - - 2 Asi Type</td>
<td>2 (16)</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>2 x EVB3S07NA or EVB3S07NCA or EVB3S07NCEAM</td>
<td>2 - - 2 Asi Type</td>
<td>2 (16)</td>
<td>-</td>
<td>2</td>
</tr>
<tr>
<td>2 x EVB3S7N4AM or EVB3S7N4CAM or EVB3S7N4EAM</td>
<td>2 - - 2 Asi Type</td>
<td>2 (16)</td>
<td>-</td>
<td>2</td>
</tr>
</tbody>
</table>

(1) Optional: Surge Protection Device (SPD): a lightning strike near a building or overhead supply lines suddenly increases the voltage from 230 V to 3 or 6 kV which might destroy electronic components. Our surge protection devices can damp the spike down to approximately 15 kV which is the value most connected appliances can withstand. It helps to reduce damage to your valuable possessions by installing surge protection devices. One surge arrester per socket is recommended for high keraunic levels, or mandatory if required by local regulations.

(2) Supplied with EVlink Pro AC

(3) To ease the cabling, 1 Kaedra enclosure per charger is preferred

(4) MCB (miniature circuit breaker) per charge point: 3P+N 40 A C 6 kA/10 kA

(5) MCB per charge point: 3P+N 20 A C 6 kA/10 kA

(6) MCB per charge point: 1P+N 40 A C 6 kA/10 kA

(7) MCB control circuit: 1P+N 4 C 4 A 6 kA/100 kA

(8) RCD control circuit: 1P+N 25 A 30 mA type AC; mandatory for TT network; strongly recommended for TNC / TNS network

(9) MCB charger: 4P 80 A C 10 kA

(10) MCB charger: 3P+N 40 A C 6 kA/10 kA

(11) MCB charger: 2P 80 A C 15 kA

(12) RCD residual current device 30 mA type Asi or type B EV
EVlink™ Pro AC Metal

Floor standing 2 charge points dual cable entrance

Designed to be handled, assembled and installed by only one person.

The necessary components for assembling the EVlink Pro AC Metal are the following:

- A metallic kit enclosure: floor standing for 2 charge points
- An EVlink Pro AC charger to be installed inside the metal enclosure
- Optional: Kaedra enclosure and/or Thalassa enclosure(s) to be mounted inside the metal enclosure for hosting the electrical protection

<table>
<thead>
<tr>
<th>EVlink Pro AC reference</th>
<th>Embedded in the EVlink Pro AC</th>
<th>To be installed in 2 Kaedra (optional)</th>
<th>To be installed in the distribution board</th>
</tr>
</thead>
<tbody>
<tr>
<td>EV3S22N40MR</td>
<td>MID meter 2</td>
<td>MNx -</td>
<td>RCD(2) per charge point</td>
</tr>
<tr>
<td>EV3S22N40M or EV3S22N40EM or EV3S22N40FM</td>
<td>2 x</td>
<td>-</td>
<td>2 Supplied(2)</td>
</tr>
<tr>
<td>EV3S37N40M or EV3S37N40EM</td>
<td>2 x</td>
<td>-</td>
<td>2 Supplied(2)</td>
</tr>
<tr>
<td>EV3S32N4 or EV3S32N4E or EV3S32N4EM</td>
<td>2 x</td>
<td>-</td>
<td>2 Supplied(2)</td>
</tr>
<tr>
<td>EV3S11N4A or EV3S11NCA or EV3S11N4FB</td>
<td>2 x</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>EV3S07N4A or EV3S07NCA or EV3S07N4EA</td>
<td>2 x</td>
<td>2</td>
<td>-</td>
</tr>
<tr>
<td>EV3S07N4A or EV3S07N4EA</td>
<td>2 x</td>
<td>2</td>
<td>-</td>
</tr>
</tbody>
</table>

(1) Optional: Surge Protection Device (SPD): a lightning strike near a building or overhead supply lines suddenly increases the voltage from 230 V to 3 or 6 kV which might destroy electronic components. Our surge protection devices can damp the spike down to approximately 15 kV which is the value most connected appliances can withstand. It helps to reduce damage to your valuable possessions by installing surge protection devices. One surge arrester per socket is recommended for high keraunic levels, or mandatory if required by local regulations.

(2) Supplied with EVlink Pro AC

(3) To ease the cabling, 1 Kaedra enclosure per charger is preferred

(4) MCCB (miniature circuit breaker) for control circuit protection: 1P+N 4 A C 6 kA/10 kA

(5) RCD control circuit: 1P+N 25 A 30 mA type AC mandatory for TT network; strongly recommended for TNC / TNS network

(6) MCCB per charge point: 3P+N 20 A C 6 kA/10 kA

(7) MCCB per charge point: 3P+N 20 A C 6 kA/10 kA

(8) MCCB per charge point: 1P+N 40 A C 6 kA/10 kA

(9) RCD residual current device 30 mA type Asi or type B EV
Customization

The EVlink Pro AC customization can be executed through local partners with the help of the product drawings below.

EVlink Pro AC

- The front plate can be customized.
- The material is PC BAYLOY 10 UV white 3.

EVlink Pro AC Metal

- The metallic enclosure can be customized.
- The material is electrogalvanized steel class C4M.

Schneider Electric provides the 2D plan with dimensions to produce the customized sticker se.com/EVlink.
Range accessories and spare parts

**EVlink Pro AC and Pro AC Metal**

**4G Kits**
4G embedded modem dedicated for architecture up to 10 EVlink Pro AC
- Cost-efficient solution for remote monitoring applications
- 1 device to manage wireless communication of up to 10 charging stations
- Compact and directly integrated inside the charging station.

![Embedded 4G modem with 2 internal antennas for EVlink Pro AC. Reference: EVA1MS](image1)

![Embedded 4G modem with an external antenna for EVlink Pro AC Metal. Reference: EVA1MM](image2)

![External modem with antenna. Modem reference: EVP3MM. Antenna reference: EVP2MX](image3)

**Pack of 10 RFID badges**
For charging stations equipped with an RFID reader. The badges are supplied blank, ready to be programmed to identify an administrator or user. Sheet of adhesive labels for badges: 1 administrator + 9 users.
Reference: EVP1BNS

**TIC interface**
Energy management: Smart meter connection to Historical and Standard TIC Tele Information Client card EVlink interface with French utility meters.
Reference: EVA1MTH

**EVlink Cable**
To connect the car to the charging station. Available in different lengths with a T2 connector.

**EVlink Pro AC specific**

**Pedestal mounting pole**
- For 1 EVlink Pro AC.
  Reference: EVA1PBS1
  H 1300 x W 285 x D 229 mm
- For 2 EVlink Pro AC.
  Reference: EVA1PBS2
  H 1300 x W 285 x D 384 mm
- Plate to convert the pedestal for 1 charger to a pedestal for 2 chargers.
  Reference: EVA1PCS2

**Permanent cable holder**
To leave the cable connected to the charging station.
Reference: EVA1PLS1
## Accessories references

### EVlink Pro AC Metal specific

#### Cable holder

Allows the cable to be left connected on the side charging station. The cable holder is mandatory for charging stations with attached cable. In case of charging station with socket, it can allow to lock the accessory cable. Reference: **EVA1FWHS12**

#### Locking accessory for the metal kit

Polyamid handle lock, mainly for cybersecurity purpose, direct mounting on front plate. 1 cylindrical barrel, 2 keys Nr 610, 1 handle with key lock. Reference: **NSYCLE10CSX**

Quantity:
- 2 for WM1CP or 2 for FS1CP,
- or 4 for FS2CP

---

## Spare part references

<table>
<thead>
<tr>
<th>EVlink Pro AC front plate</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVlink Pro AC front plate</td>
<td>EVP1SS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EVlink Pro AC front plate with cut-out window</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVlink Pro AC front plate with cut-out window</td>
<td>EVP1SM</td>
</tr>
</tbody>
</table>

Designed with a cut-out window enabling to see the EVlink Pro AC MID meter.

### EVlink Pro AC and Pro AC Metal - Socket outlets

- 1PH socket outlet T2S
  - EVP1SSS41
- 3PH socket outlet T2S
  - EVP1SSS43
- 1PH socket outlet T2S - Domestic Tx (not supplied)
  - EVP1SSS51
- 3PH socket outlet T2S - Domestic Tx (not supplied)
  - EVP1SSS53
- TE domestic socket
  - EVP1SSS6E
- TF domestic socket
  - EVP1SSS6F

### EVlink Pro AC and Pro AC Metal - Attached cables

#### T2 charging connector

- 32 A single-phase 5 m length
  - EVP1CSS321C
- 32 A three-phase 5 m length
  - EVP1CSS323C
Cables for EVlink™ Home and Pro AC ranges

Characteristics

- Tested and certified product: Third-party laboratory CB certification (LCIE) complies with the applicable standard IEC 62196
- Fast charging (Mode 3)
- High-strength cable

Two good reasons to have a second EVlink cable in your electric vehicle

1. To take advantage of the charging capacity of public charging stations: by having an appropriate EVlink cable for the charging stations used, you obtain fast charging with integrated protection(1).

2. To have a fallback solution. E.g. charging cable damaged or misplaced, or to help out another electric vehicle user.

Which EVlink cable for which electric vehicle?

<table>
<thead>
<tr>
<th>References</th>
<th>No. of phases</th>
<th>Charging power accepted (kW)</th>
<th>Cable length (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1</td>
<td>3</td>
<td>3.7</td>
</tr>
<tr>
<td>EVP1CNS32122</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>EVP1CNL32122</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>EVP1CNX32122</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>EVP1CNS32322</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
<tr>
<td>EVP1CNL32322</td>
<td>●</td>
<td>●</td>
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</tr>
<tr>
<td>EVP1CNX32322</td>
<td>●</td>
<td>●</td>
<td>●</td>
</tr>
</tbody>
</table>

(1) Learn more on the Wiki guide for Electric Vehicle charging
EVlink™ DC Product Range

Electric vehicle charging stations

EVlink™ DC Fast Charge .................................................. p. 50

EVlink™ Pro DC 120-150-180 kW ........................................ p.52
In short

DC 24 kW - 1 connector / single standard
DC 24 kW - 2 or 3 connectors / multiple standards

DC 24 kW stations are able to charge an electric vehicle in less than 1 hour. The range covers a large variety of needs with a choice of either per station:

- 1 connector, CHAdeMO or CCS Combo 2
- 2 connectors, CHAdeMO + CCS Combo 2
- 3 connectors, CHAdeMO + CCS Combo 2 + AC Type 2S (front socket outlet with shutter, for AC current with simultaneous charging AC + DC)

Communication with dual modem for separate operation and maintenance supervision.

Installation

- Indoor or outdoor
- Wall mounted, floor mounted with additional pedestal
- Installation in less than 2 hours (when supply the cable is already installed)

Maintenance

- Reduced maintenance as there is no air filter to replace and a robust design (IP55, IK10) for uptime optimization.

DC 24 kW - 1 connector / single standard
Communication with dual modem for separate operation and maintenance supervision.

DC 24 kW - 2 or 3 connectors / multiple standards
Charging stations are ideal solutions for shopping centers, restaurants, parking areas or for any work place or shared buildings.

Standards

- EV international standard: EN 61851-1 Ed. 3
- Immunity for industrial environments: EN 61000-6-2 - sept. 2015
- Emissions for industrial environments: EN 61000-6-4 - 2017 + A1: 2011
- EMC for industrial environments: Class A
- EV ready for AC output of the 3 connector versions

Application

EVlink Fast Charge stations are designed to charge a vehicle rapidly: 80% of capacity charged in less than 1 hour.
Mechanical and environmental features
- Degree of protection: IP55 (except cordsets)
- Degree of mechanical protection: IK10
- Operating temperature: -25°C / +50°C (with derating above 35°C)
- Storage temperature: -25°C to 65°C
- Operating altitude: 2000 m max.
- Relative humidity: 10% to 95%

Power supply network and charging mode
- Power supply: 360 - 440 V, 3P + N + earthing, 50 Hz
- Nominal supply current: 38 A (42 A max.) for DC output all versions
- Nominal supply current: 32 A (35 A max.) for AC output (version with 3 connectors)
- Direct current charging (all charging stations)
  - Charging in Mode 4 (IEC 61851-23)
  - Charging power: 24 kW
  - Charging voltage/current: 200 to 530 VDC CCS Combo 2 / 150 to 500 VDC CHAdeMO, 1.5 to 65 A
  - Protections: short circuit, overload; Residual Current Device on DC output; overheating, temperature regulated
  - Cable length: Mono-standard 3.25 m, Multi-standard 3.25 m

Alternating current charging (3-socket charging station only)
- Charging in Mode 3 (IEC 61851-22)
- Charging power: 22 kW
- Charging voltage/current: 400 V ± 10% AC, 3P + N + earthing, 32 A max., with the front AC Type 2S socket outlet
- Protection: short circuit, overload; overheating, temperature regulated

Communication
- Wireless 3G/4G modem
- OCPP 1.6json
- LAN/TCP IP protocol

User interfaces
- 7-inch touch screen
- RFID card reader

Dimensions (cabinet without socket / cable)
- Mono-standard wall mounted (mm): H 860 x L 507 x W 250
- Mono-standard on pedestal (mm): H 1533 x L 536 x W 336
- Multi-standard wall mounted (mm): H 1225 x L 507 x W 250
- Multi-standard on pedestal (mm): H 1835 x L 536 x W 336

---

### Charging station references

<table>
<thead>
<tr>
<th>EVlink DC Fast Chargers</th>
<th>Connector(s)</th>
<th>References</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 kW DC</td>
<td>CHAdeMO</td>
<td>EVD1S24T0H</td>
<td>66</td>
</tr>
<tr>
<td></td>
<td>CCS Combo 2</td>
<td>EVD1S24T0B</td>
<td>66</td>
</tr>
<tr>
<td></td>
<td>CHAdeMO + CCS Combo 2</td>
<td>EVD1S24THB</td>
<td>93</td>
</tr>
<tr>
<td>24 kW DC/22 kW AC</td>
<td>CHAdeMO + CCS Combo 2 + AC Type 2S</td>
<td>EVD1S24THB2</td>
<td>93</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Pedestals</th>
<th>References</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>For EVlink DC fast chargers</td>
<td>EVP1DB1LG</td>
<td>51</td>
</tr>
<tr>
<td>For EVD1S24T0H, EVD1S24T0B</td>
<td>EVP1DB2LG</td>
<td>53</td>
</tr>
</tbody>
</table>
EVlink™ Pro DC 120-150-180 kW

Charging station offer
EVlink DC Pro DC 120 – 150 - 180 kW charging stations are able to charge an electric vehicle in less than 30 minutes. The range covers a large variety of needs with a choice of either, per station:
• 2 connectors, CCS Combo 2 + CCS Combo 2
• 2 connectors, CHAdeMO + CCS Combo 2

Pro DC 120 – 150 – 180 kW with 2 vehicle connectors is capable to charge one vehicle at full power or simultaneously two vehicles with dynamic power allocation. For instance, to charge one vehicle at 120 kW while charging another one at 60 kW at the same time.

Easy to install
• Indoor or outdoor
• Floor mounted
• Installation in less than 2 hours (when supply cable is already installed)

Mechanical and environment features
• Degree of protection: IP55
• Degree of mechanical protection: IK10 – IK08 for the screen
• Operating temperature: -30°C / +50°C (with derating above 50°C)
• Storage temperature: -40°C to 70°C
• Operating altitude: 2000 m max.
• Relative humidity: 5% to 95%
• Corrosion protection C3M
• Charge interrupt button
• Accessible to disable people

Access control modes
• Free Access
• User authentication through RFID or NFC badge
  - NFC 13.56 MHz reader compatible with type 1, 2, 4 and 5 badges
  - RFID reader:
    • conforming to ISO/CEI 14443 A & B and ISO/CEI 15693 protocols,
    • compatible with Mifare Ultralight, Mifare Classic, Mifare Plus
• Auto-charge (EV MAC address)
• QR code for CPO application

Services
• Worldwide Customer Care Centre
• Additional 1- or 3-years Warranty Extension
• Onsite commissioning support
• Services Plan
• Schneider Electric manufactured Spare parts
• Advanced training
• Worldwide network of Schneider Electric services representatives providing on-site installation, commissioning and maintenance services

Application
EVlink Pro DC 120 – 150 – 180 kW charging stations are recommended for vehicle depot and traffic application.
Characteristics

Power supply network and charging mode
- Power supply: 380 - 400 V - 415 Vac +/- 10% 50/60 Hz
- Poles description: L1+L2+L3+N+PE

Direct current charging (all charging stations)
- Charging in Mode 4 (IEC 61851-23)
- Charging power:
  - CCS Combo 2 - 120 – 150 – 180 kW
  - CHAdeMO - 60 kW
- Charging voltage/current:
  - CCS Combo 2 - 150 to 1 000 VDC / 300 A Max
  - CHAdeMO 150 to 500 VDC / 125 A Max
- Standby power: 90 W
- Protection against overheating, temperature regulated
- Cable range: 3.6 m with cable management
- Efficiency 94.5% at nominal output power
- Power Factor ≥ 0.99 at nominal output power
- THDi ≤ 5% at nominal output power
- Acoustic noise: Variable under load: 0dB - 65dB at 1m in front of the charger

Embedded protection and metering
- MCB
- RCD on DC output
- SPD
- Metering: DC Meter class 1 (1% accuracy at full scale)

Diagram of the earthing system
- TT, TN-S, TN-C-S
- IT (Compatible IT on 1-phase ; Compatible IT with additional isolating transformer on the 3-phase power supply)

Versatile connection to a supervision
- Ethernet
- Wireless 4G modem
- Wi-Fi
- OCPP 1.6Json Smart Charging interface
- ISO15118 / DIN 70121
- LAN/TCP IP protocol

User interfaces
- 10-inch touch screen (multi-language support English, French, German, Norwegian, Spanish). Possibility to add additional language
- multi-color LED for status indication for each vehicle connector

Sensors
- Humidity sensor
- Door sensor
- Water ingress sensor

Dimensions (cabinet with Cable management)
- H 2291 x L 992 x W 833 mm (H 90.20 x L 39.06 x W 32.80 In.)
EVlink™ Pro DC 120-150-180 kW

Charging station references

<table>
<thead>
<tr>
<th>Power</th>
<th>Connector(s)</th>
<th>References(1)</th>
<th>Weight without power module</th>
<th>Weight with power module</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 kW DC</td>
<td>CCS Combo 2 + CCS Combo 2</td>
<td>EVD1S120TBB</td>
<td>~406 kg / 896 lb</td>
<td>~466 kg / 1028 lb</td>
</tr>
<tr>
<td></td>
<td>CHAdeMO + CCS Combo 2</td>
<td>EVD1S120THB</td>
<td>~406 kg / 896 lb</td>
<td>~466 kg / 1028 lb</td>
</tr>
<tr>
<td>150 kW DC</td>
<td>CCS Combo 2 + CCS Combo 2</td>
<td>EVD1S120TBB</td>
<td>~406 kg / 896 lb</td>
<td>~481 kg / 1061 lb</td>
</tr>
<tr>
<td></td>
<td>CHAdeMO + CCS Combo 2</td>
<td>EVD1S120THB</td>
<td>~406 kg / 896 lb</td>
<td>~481 kg / 1061 lb</td>
</tr>
<tr>
<td>180 kW DC</td>
<td>CCS Combo 2 + CCS Combo 2</td>
<td>EVD1S120TBB</td>
<td>~406 kg / 896 lb</td>
<td>~496 kg / 1094 lb</td>
</tr>
<tr>
<td></td>
<td>CHAdeMO + CCS Combo 2</td>
<td>EVD1S120THB</td>
<td>~406 kg / 896 lb</td>
<td>~496 kg / 1094 lb</td>
</tr>
</tbody>
</table>

(1) References to be defined and local availability to be checked by Schneider Electric front offices.

Current information and protections

Current information and protections to use with EVlink Pro DC 120 - 150 - 180 kW

<table>
<thead>
<tr>
<th>Current</th>
<th>Power</th>
<th>Rated current</th>
<th>Max. current</th>
<th>Electrical protection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>120 kW</td>
<td>193 A</td>
<td>214 A</td>
<td>Circuit breaker (overcurrent) 3P+N or 4P C25F4TM250* or C25F44V2501* LV432465</td>
</tr>
<tr>
<td></td>
<td>150 kW</td>
<td>242 A</td>
<td>268 A</td>
<td>Optional RCD protection (VigiPact) - C40F42D400</td>
</tr>
<tr>
<td></td>
<td>180 kW</td>
<td>291 A</td>
<td>323 A</td>
<td>-                      C40F42D400</td>
</tr>
</tbody>
</table>

*Optional RCD protection included.
Note: if there is plan to upgrade later (from 120 to 150 kW or 150 to 180 kW...) already consider the protection sizings for DC 180 kW.

Additional information

<table>
<thead>
<tr>
<th>Charging station technical document</th>
<th>Language</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Guide(1)</td>
<td>EN</td>
<td>GEX4300800</td>
</tr>
<tr>
<td>Owner Guide</td>
<td>EN</td>
<td>GEX4301000</td>
</tr>
<tr>
<td>Technical specifications OCPP connectivity guide</td>
<td>EN</td>
<td>DOCA0311</td>
</tr>
<tr>
<td>EVlink Pro DC Cyber-security Guide</td>
<td>EN</td>
<td>DOCA0310</td>
</tr>
</tbody>
</table>

(1) Delivered with the product.

Download the above documents on Schneider Electric website.
Energy management, software and digital services

- Energy management .......................................................... p. 58
- EcoStruxure™ EV Charging Expert ........................................ p. 60
- EcoStruxure™ EV Advisor ....................................................... p. 66
Energy management

How to optimize the impact of the charging solution’s consumption on an electrical installation

The problem

Initial situation

Solution without energy management

Increase in subscribed power

The installation of charging stations in an existing electrical installation can have a significant impact due to the power level required by electric vehicles to charge.

This solution consists of increasing the power subscribed to the energy supplier to maintain the same consumption model. It implies an increase in the cost of the subscription and the trigger threshold can be exceeded. Thus the continuity of service of the building could be impacted.

Electrical installation without energy management
Schneider Electric solutions

Static energy management

Dynamic energy management

Setpoint "D" is fixed. The power is distributed between all connected vehicles.

Setpoint "D" is adjusted in real-time according to the consumption of the rest of loads in the building, to maximize the power allocated to charging electric vehicles.

Electrical installation with energy management

From 1 to 100 charging stations depending on the EV Charging Expert model selected.

Discover more installation guidelines for EcoStruxure EV Charging Expert
EcoStruxure™ EV Charging Expert

EcoStruxure EV Charging Expert has been awarded with the prestigious “Solar impulse Efficient Solution” label.

EcoStruxure EV Charging Expert allows EV charging to be monitored, controlled and maximized based on the real-time available power in the building.

It helps to ensure the respect of cost and energy efficiency constraints of a set of charging stations by controlling their operation. The controller runs its management program according to the selected parameters and data received from the charging stations.

**Characteristics**
- PLC type: Harmony iPC IoT Edge Box Core
- Operating system: Linux Yocto
- Supply voltage: 12...24 V DC
- Inrush current: 0.43 A
- Consumption: 16 W
- Dimensions: 150 x 46 x 157 mm
- Protection class: IP40
- Standards/Directives:
  - 2014/30/EU (electromagnetic compatibility)
  - 2014/35/EU (Low Voltage Directive)
  - Class A EN 55022 (electromagnetic compatibility, conducted and radiated emissions)
- Connections: 2 x USB 2.0, 1 x HDMI, 2 x Ethernet (10/100/1000 Mb/s), 1 x COM RS-232 (default), RS-232/422/485 (non-isolated), 1 ground connection, 1 GPIO, 1 power supply connector 24 V DC

**Connection to the charging stations**
- Directly to the Ethernet LAN via a switch
- Directly to the Ethernet LAN or remotely via a 3G or 4G modem
- Communication under OCPP 1.6 JSON (possible upgrade to OCPP 2.0)

**Functions**
- Calculates the power allocated to the charging stations
- Centralization and availability of data for each station

**User interface**
EcoStruxure EV Charging Expert provides access to an ergonomic and intuitive user interface (web server) to:
- remote start / stop a charging session
- reset or reboot a charging station
- visualize a dashboard indicating the status of each charging station
- manage badges (local addition, import or export badge list) and user rights
- access and export the history of charging data by station, by badge or aggregated for the infrastructure
- consult and export maintenance data.
### CORE references

<table>
<thead>
<tr>
<th>Features</th>
<th>EcoStruxure EV Charging Expert with Static mode</th>
<th>EcoStruxure EV Charging Expert with Dynamic and Static modes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity</td>
<td>Static current setpoint</td>
<td>Dynamic current setpoint</td>
</tr>
<tr>
<td>Power management</td>
<td>Dynamic, with a STATIC current setpoint</td>
<td>Dynamic, with a DYNAMIC current setpoint, or STATIC current setpoint</td>
</tr>
<tr>
<td>Multi zone</td>
<td>Maximum number of zones</td>
<td>Maximum number of zones</td>
</tr>
<tr>
<td>Other loads</td>
<td>Power consumption reporting on other feeders</td>
<td></td>
</tr>
<tr>
<td>Badge management</td>
<td>VIP privilege user badge</td>
<td></td>
</tr>
<tr>
<td>Station management</td>
<td>VIP privilege charging station</td>
<td></td>
</tr>
</tbody>
</table>

(1) To upgrade from a current CORE reference to an upper-level one, consult the UPGRADES Software references below.

### UPGRADES Software references

Upgrade from a CORE offer to an upper-level in case of increased number of charging stations in the infrastructure or load management mode change.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVLMSESS2ESM</td>
<td>Upgrade EV Charging Expert static from 15 to 50 charging stations</td>
</tr>
<tr>
<td>EVLMSEDB2EDS</td>
<td>Upgrade EV Charging Expert dynamic from 5 to 15 charging stations</td>
</tr>
<tr>
<td>EVLMSEDB2EDM</td>
<td>Upgrade EV Charging Expert dynamic from 5 to 50 charging stations</td>
</tr>
<tr>
<td>EVLMSEDS2EDM</td>
<td>Upgrade EV Charging Expert dynamic from 15 to 50 charging stations</td>
</tr>
<tr>
<td>EVLMSEDS2EDL</td>
<td>Upgrade EV Charging Expert dynamic from 50 to 100 charging stations</td>
</tr>
<tr>
<td>EVLMSEDM2EDL</td>
<td>Upgrade EV Charging Expert dynamic from 50 to 100 charging stations</td>
</tr>
<tr>
<td>EVLMSESS2EDS</td>
<td>Upgrade EV Charging Expert static to 50 charging stations static to dynamic</td>
</tr>
<tr>
<td>EVLMSESS2EDM</td>
<td>Upgrade EV Charging Expert static to 50 charging stations static to dynamic</td>
</tr>
<tr>
<td>EVLMSESM2EDM</td>
<td>Upgrade EV Charging Expert static to 50 charging stations static to dynamic</td>
</tr>
<tr>
<td>EVLMSESS2EDL</td>
<td>Upgrade EV Charging Expert static to 100 charging stations static to dynamic</td>
</tr>
<tr>
<td>EVLMSESM2EDL</td>
<td>Upgrade EV Charging Expert static to 100 charging stations static to dynamic</td>
</tr>
</tbody>
</table>

### Practical information

#### EcoStruxure EV Charging Expert dimensions (mm)

**Dimensions**

**Rear view**

1. ETH1 (10/100/1000 Mbits/s)
2. Ground
3. DC supply
Energy management, software and digital services

EcoStruxure™ EV Charging Expert

➤ Features and benefits

Simplified, decentralized, flexible installation architecture

• EcoStruxure EV Charging Expert manages and controls up to 100 charging stations from one single controller and user interface dashboard
• It is available in different versions to adapt to the specific customer needs, whether this is for fewer than 5 charging stations, or up to 100
• It allows several parking zones to be managed, each one with its own power metering for dynamic load management, and all of it from a single controller
• It is scalable, and allows the installation to be upgraded easily from a current model to a more sophisticated one if the customer’s EV charging needs evolve
• It operates with open protocols (OCPP 1.6Json) facilitating integration with other systems
• It allows the execution of installations according to "EV/ZE Ready" standards
• It is available at most distributors.

Designed to be easily installed and commissioned by an installer

• Protection and control components to be installed in a Prisma panel or equivalent
• The webserver includes a configuration assistant that walks the installer through the different steps to configure the system
• Automatic scan and configuration of charging stations, all in parallel to save time
• Easy firmware updates, with the most recent firmware release available on se.com.

Multiple functionalities for efficient operation and maintenance

• Integrates the local supervision of charging stations and their power management in a single product
• Includes an intuitive dashboard interface to manage and control the installation
• Optimizes building continuity of service while providing the highest possible EV charging capabilities in real-time
• Distributes energy equitably among all electric vehicles while maximizing the power delivered to the charging stations and the number of vehicles that charge simultaneously
• Provides time-of-use electricity tariff scheduling to limit EV charging when the electricity price is high, and to maximize it when it is low (depending on the selected model)
• The electric vehicle driver can see that the charging of the car is active before leaving it (a new vehicle is always actively charging when just connected) and prioritize it, even when all the available power is already being distributed to other vehicles which have been connected longer
• Allows the management of user badges without having to subscribe to an additional supervision system
• Allows priority (VIP) user badges or charging stations to be defined. These will not be load-shed, or will only be load-shed when strictly necessary to ensure the building’s power continuity (depending on the selected model)
• Registers all historic data related to the EV charging transactions for analytics, cost allocation or invoicing
• Does not generate any subscription cost (if the services of a Charge Point Operator are needed, EcoStruxure EV Charging Expert is compatible with a CPO backend system (OCPP 1.6J protocol))
• Offers integration capabilities as it communicates with the Building Management System (BMS) via a webservice (may require specific development)
• Major international manufacturer and world leader in eMobility.
Operation

- EcoStruxure EV Charging Expert controls the EV charging infrastructure
- It allows the instantaneous power drawn by the entire set of connected electric vehicles to be limited, and manages the energy allocated to each one of them
- In real time, it transmits a setpoint to each charging station, which is transferred to the vehicles
- If the setpoint is exceeded, a decrease in energy is applied in the same way to all charge points (51% in the example with 17 kW of available power)
- Output is only reduced on the electrical phases that need it.

Descriptive example to illustrate the load reduction and load-shedding operation

![Diagram](image)

**Available power in the building allocated to EV charging**

<table>
<thead>
<tr>
<th>Delivered charging power</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>33.1 kW</td>
<td>The full available energy is delivered.</td>
</tr>
<tr>
<td>17 kW</td>
<td>The energy will be delivered according to an equal percentage, in this example: 51%. <strong>Details</strong>: 17 kW / 33.1 kW = 51%.</td>
</tr>
<tr>
<td>12 kW</td>
<td>When reaching the minimum current setpoint of a charge point, its current level will be maintained so that the EV keeps charging. <strong>Details</strong>: Min. current for an EV to charge (according to IEC 61851) = 6 A, representing 1.4 kW of a 3.7 kW charging station. 12 - (3 x 1.4 kW) = 7.8 kW, that are provided by the 22 kW charging station.</td>
</tr>
<tr>
<td>7.5 kW</td>
<td>If there is not enough power to feed all the charging stations, charge point load shedding will be triggered, following the load-shedding rules. <strong>Details</strong>: With 6 A (1.4 kW) per active charging station (IEC 61851 minimum current), the 7.5 kW of charging power are respected by switching off 1 charging station. 7.5 - (2 x 1.4 kW) = 4.7 kW, that are provided by the 22 kW charging station.</td>
</tr>
</tbody>
</table>
Principle of load balancing between vehicles

When the load shedding is triggered, the algorithm allows the available energy to be distributed according to 2 strategies (depending on the settings):

- Based on the energy already consumed: the system interrupts the charging of the vehicles that have obtained the highest amount of kWh since the start of their charging, favoring recently arrived vehicles.
- Based on the connection time: the system interrupts the charging of the vehicles with the longest charging time, favoring those last arrived.

In both cases, the system rechecks and updates the situation every 15 minutes.

Functions performed by all commercial references of EV Charging Expert

<table>
<thead>
<tr>
<th>Access Management</th>
<th>Commissioning</th>
<th>Operation</th>
<th>Connectivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Add, modify, delete, supervise badges</td>
<td>Commissioning all charging stations directly from EVLink LMS</td>
<td>Supervision through real-time dashboard and remote actions on charging stations</td>
<td>Connection with CPO supervision (OCPP 1.6 Json)</td>
</tr>
<tr>
<td>Save and restore commissioned configuration</td>
<td></td>
<td>Charge data report export</td>
<td>Connection with EcoStruxure supervision (web services)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Maintenance report export</td>
<td>Optional: 3G/4G modem</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Commissioning by Ethernet cable</td>
</tr>
</tbody>
</table>

(1) May require specific development

Additional information

<table>
<thead>
<tr>
<th>Charging station technical document</th>
<th>Language</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Installation Guides</td>
<td>EN</td>
<td>EcoStruxure™ EV Charging Expert Installation Guide: DOCA0164</td>
</tr>
<tr>
<td>User Guides</td>
<td>EN</td>
<td>EcoStruxure™ EV Charging Expert User Guide: DOCA0163</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Quick Start commissioning Guide EVSOLQSC001EN</td>
</tr>
</tbody>
</table>

Download the above documents on Schneider Electric website.

Refer to Appendix for detailed:
- Switch details .......................................................... p. 103
- Possible IT network topologies ........................................ p. 102
- Typical load management architectures .............................. p. 104
EcoStruxure EV Advisor is an eMobility management platform that enables seamless EV charging for fleets, buildings and destinations. This SaaS offer is built to supply charge point operators, installers, building operators and fleet operators with everything they need to make their operation a successful venture.

Users benefit from remote supervision and operation functions including features such as asset monitoring and asset control, cloud-based static load leveling, EV driver access management and pricing. As an open cloud-based platform, EcoStruxure EV Advisor will help our customers make the most of their EV charging infrastructure and will support them in implementing their individual business case using Schneider or third-party manufacturer’s hardware*.

This digital solution complements the eMobility portfolio and completes the EcoStruxure for eMobility offer.

**Architecture**

Whether you want to monitor a single site or manage an international network, with EcoStruxure EV Advisor you have flexibility to implement your individual business case.

With EcoStruxure EV Advisor, you can allocate access to the platform according to roles or responsibilities and share a log-in with your customers. For this purpose you can whitelabel the platform itself to promote your brand along with offering a whitelabeled EV Driver application.

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* Available soon in selected European countries

(1) Consult us to get the list of approved third party charging station manufacturers.

* Available soon in selected European countries

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(1) 4G data subscription is provided as option.
EcoStruxure EV Advisor meets your challenges

- **Optimize uptime**
  Monitor the charging stations’ performance remotely and reduce downtime with the help of alerts and remote-control functions to minimize the time you have to spend on site.

- **Monitor your key performance indicators**
  Generate dashboards with specific insights into utilization, revenue and station health, and data related to sustainability such as greenhouse gas reduction.

- **Avoid energy consumption peaks**
  Smartly manage the energy consumption of your EV infrastructure with our cloud-based load management tool.

- **Profit from the integrated Billing Solution**
  Enroll RFID cards and give granular access. Set a pricing scheme for your chargers.

- **User-friendly charging experience**
  The EV / Driver application helps drivers to start a charging session from their phone and to see what chargers they have access to.

- **Control your EV charging history**
  EV Drivers can track their usage in real-time and get detailed reports about their usage.
Manage your EV charging infrastructure
- Monitor your charging infrastructure remotely and carry out remote maintenance and troubleshooting activities.
- Manage access and permissions by specifying the rights of individuals or groups of EV drivers.

Generate revenues
- Set tariffs for charging events based on location, day of the week, time of day, parking time, consumption, number of charging events, and more.

Customize and implement your business case
- Develop your specific business case to suit your business activity. Manage a small number of locations or create your own network.
- Manage user rights: grant view-only or editor rights to different users of the EV Advisor platform in your organization or give your customers limited access to, for example, dashboard and reports.

Optimize cost and grid usage
- Optimize EV infrastructure energy consumption with the static cloud energy management feature.
- Monitor usage of the EV infrastructure to size and anticipate future needs through stats and dashboards.

Take advantage of an Open Platform
- Integrate the entire library of APIs to create a seamless customer experience.
- Connect and integrate third party OCPP compliant hardware to leverage EV Advisor as a truly open platform.

Optimize EV drivers’ user experience
- Provide the app to your EV drivers to enable them to find and unlock the charging stations, monitor their usage and review invoices.
- Support awareness for your brand by whitelabeling the EV driver application.

Choose to become a network operator
- Set up multiple organizations and locations that can be monitored simultaneously.
- Whitelabel the platform dashboard with your brand and allow your customers and partners to access certain areas of the platform.
- Customized APIs supporting app development and other use cases including identity management, payment and CRM system integration.
- Share your entire network of chargers with EV drivers to increase utilisation, your profitability and the EV driver experience.
eMobility Services

How do I renew and design? ........................................... p. 72
Consulting ........................................................................ p. 72

How do I install and commission? ................................. p. 74
Commissioning ................................................................. p. 74
Warranty extension ......................................................... p. 75

How do I maintain? ......................................................... p. 77
eMobility Service Plan ..................................................... p. 77
Spare parts ....................................................................... p. 78

How do I optimize? ........................................................ p. 79
EcoStruxure EV Charging Expert upgrade ....................... p. 79
EVlink Parking modernization ......................................... p. 79

Get in touch for support ............................................... p. 80
Customer Case Support ................................................ p. 80
Premium support ............................................................... p. 80
Training ........................................................................ p. 81

A professional network ................................................. p. 82
Commercial references .................................................. p. 84
eMobility Services

Services over the entire lifecycle

Wherever you are in your eMobility adoption, we've got you covered!

Design your infrastructure
Let's partner up to design a sustainable and efficient eMobility charging solution for your electric fleet that suits your business needs, either for new projects or for upgrading your infrastructure, optimizing your installation with renewable energies, digital software, and management services.

Make your operation smarter
Efficiently manage your charging stations for optimized energy consumption and minimized carbon footprint while seamlessly monetizing your EV charging assets, which can be easily monitored and controlled through energy management capabilities.

Make the most of your new installation
Take advantage of our experts to optimize the performance of your EV infrastructure and keep your assets running in optimum condition throughout the whole lifecycle, from installation and commissioning, up to maintenance and modernization.

A professional network
Optimize uptime with the support of a network of certified experts for consulting, field, and remote services, trained and equipped with tools to execute on-site interventions and remotely diagnose and manage your eMobility assets.

Our 4 service values

- **Service-level agreement**
  By ordering a service contract, get advantage of an SLA, providing peace of mind by taking a better care for your EV Charging Infrastructure.

- **Personalized deal**
  Leverage a contract individually tailored to your requirements and conditions.

- **Increased lifespan of your equipment**
  Extend the lifespan of your products and systems with preventive maintenance and services.

- **Schneider Electric expertise**
  Schneider Field Services representatives provide nationwide services with spare parts readily available for you.
eMobility Services

Improve productivity and minimize operational costs by reducing downtime throughout the entire lifecycle of your charging infrastructure.

How do I install and commission?
- Commissioning
- Warranty Extension

How do I operate?
Through Partners using
- EcoStruxure EV Advisor

How do I maintain?
- Services Plan
- Repair and exchange
- Spare parts
- On-demand maintenance

How do I renew and design?
- Consulting

How do I optimize?
- Consulting
- Modernization and upgrade
- EcoStruxure EV Charging Expert upgrade

Assess
Install
Operate
Maintain
Optimize

• Remote technical support
• On-site training
How do I renew and design?

Consulting

New to eMobility? We’ve got you covered.

Whether for a new project or for upgrading your current infrastructure, our consultants are there with you from the beginning to cover a complete eMobility integration fully tailored to your fleet or building needs.

Consulting,
Assessment,
Support and more...

Contact your local eMobility sales representative for further information
How do I install and commission?

Commissioning

For complex AC architectures with EcoStruxure EV Charging Expert, EVlink Pro AC or EVlink Pro DC

At Schneider Electric, we take technical support very seriously. Our technical experts provide on-site and remote assistance in commissioning new charging stations especially when there are building load management and supervision requirements. Our certified technicians will help the equipment is properly commissioned and programmed. In addition, you will receive a detailed commissioning report, signed off by a Schneider Electric engineer, certifying the equipment is set up correctly and covered by our warranty.

Benefits

• Minimize start-up time and improve end-user satisfaction.
• Take advantage of the expertise of Schneider Electric technicians on the choice of settings to improve system performance.
• Leverage an installation that complies with the Schneider Electric standard of practices and therefore optimizes equipment uptime and costs.

Mobile Apps

Download the MySchneiderApp and Manage your eMobility Asset seamlessly!

Manage the performance of your asset

• Access obsolescence reports and associated service recommendations.
• Access the manufacturer’s product documentation linked to your asset and store your own documents.

Anticipate any issues

• Be notified about recommended actions on your installed products: address your concerns about the right products at the right time.

Technical Support

• Our FAQs and contact to the Customer Care Center are available and customized to each of your registered assets.
• One click access to your dedicated technical support team.

Download the Application

REGISTER YOUR ASSET NOW
How do I install and commission?

 Warranty Extension

Long-term protection of your asset with warranty extension

Our warranty extension* allows you to expand your factory warranty for an additional one or three years, giving you more flexibility and peace of mind, and improved control of your maintenance budget.

Benefits

• Keep repair costs under control
• Reduce maintenance costs of new products installed
• Tap into coverage flexibility and choose either one or three years

*The warranty extension can only be ordered at the time of purchasing your EVlink charging station. Check warranty duration with your local sales representative and register the warranty extension by contacting our Customer Care center.

Additional information

<table>
<thead>
<tr>
<th>Charging station technical document</th>
<th>Language</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brochure</td>
<td>EN</td>
<td>EVlink Warranty Extension: 998-21927452</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EVlink Commissioning Service: 998-21950800_B</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EcoStruxure EV Charging Expert Upgrade and Commissioning package: 998-22046477</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>eMobility Services - Statement of work</th>
<th>EN</th>
<th>Warranty Extension: JYT9348100</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Remote Commissioning: PKR2869000</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Service Plan for DC infrastructure: DOC0309</td>
</tr>
<tr>
<td></td>
<td></td>
<td>On-site commissioning for AC infrastructure: GEX5781900</td>
</tr>
<tr>
<td></td>
<td></td>
<td>On-site commissioning for DC infrastructure: DOCA0308</td>
</tr>
</tbody>
</table>

Download the above documents on Schneider Electric website.
How do I maintain?

➢ eMobility Service Plan

Extend life and performance of your equipment with our Services Plan

At Schneider Electric, we believe that the time and cost associated with EV charging infrastructure should never be barriers to achieving sustainable goals. With a fixed yearly plan, you can expect top-of-the-line services from Schneider Electric for your eMobility infrastructure, in addition to priority access to on-site and remote support and preferential prices on our spare parts ecosystem.

Benefits

<table>
<thead>
<tr>
<th>Continuous support</th>
<th>• 8/5 remote technical support with agreed fast response time and on-site support dispatch.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optimize your investment and increase uptime</td>
<td>• Reduction of downtime thanks to regular preventive maintenance.</td>
</tr>
<tr>
<td>Control your budget</td>
<td>• One fixed yearly plan for all your maintenance needs.</td>
</tr>
<tr>
<td>Operate in optimum conditions</td>
<td>• High-end services based on the manufacturer’s expertise • With up-to-date features and firmware</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Services Plan</th>
<th>Support to operations</th>
<th>Access to mySchneider portal with chat, visibility of assets and warranty status, visits scheduling and reports</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Premium Technical Support</td>
<td>Direct access to experts during business hours with Service Level Agreement on Initial response time</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Scheduled Support Session with expert</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Remote expertise thanks to remote connectivity</td>
</tr>
<tr>
<td></td>
<td>On-site intervention</td>
<td>Break-fix on-site intervention</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Service Level Agreement – subject to local execution capabilities</td>
</tr>
<tr>
<td></td>
<td></td>
<td>On-site intervention cost</td>
</tr>
<tr>
<td>Replacement Parts</td>
<td>Replacement parts</td>
<td>Spare parts cost</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Preventive Maintenance</td>
<td>Yearly On-Site Preventive Maintenance</td>
</tr>
<tr>
<td></td>
<td>Warranty Extension</td>
<td>1 or 3 years warranty extension</td>
</tr>
</tbody>
</table>
How do I maintain?

➤ eMobility Spare Parts

Maximize reliability and safeguard your maintenance needs with high quality original parts

Schneider Electric provides you with original spare parts as the ideal base for your preventive maintenance and – if needed – repair work.

Benefits

<table>
<thead>
<tr>
<th>Original</th>
<th>• As the manufacturer, Schneider Electric knows everything about the spare parts for its products.</th>
</tr>
</thead>
</table>
| High Quality | • The parts are authentic and the same as used in the actual product.  
• There is no fear for counterfeit parts when sourcing from the manufacturer. |
| Available | • Spare parts are available from our local, regional and global stocks.  
• Fast delivery options can further accelerate the delivery of parts to you. |

End of life policy

• Schneider Electric provides continuity of service for all withdrawn products.
• Withdrawn spare parts, accessories and charging stations are available for 5 years from the commercialization end date to replace or repair products.

Learn more on Schneider Electric website

Spare part list on the website

EVlink Field services

Instruction sheet

Spare part replacement guide
How do I optimize?

▶ EcoStruxure EV Charging Expert Upgrade and commissioning package

Extend the eMobility infrastructure

The EcoStruxure EV Charging Expert upgrade and commissioning package makes your eMobility infrastructure extension project smooth and efficient with newly added features.

Schneider Electric technicians upgrade your EcoStruxure EV Charging Expert license to extend the charging station management capacity and/or to move to dynamic load management. They also perform on-site commissioning for additional charging stations and update the EcoStruxure EV Charging Expert software settings.

Benefits

• Extend and upgrade your eMobility infrastructure with new functionalities without buying new products
• Minimize upgrade and start-up time thanks to Schneider Electric’s fast support
• Benefit from Schneider Electric’s expertise to maximize uptime and lifetime of your equipment.

▶ EVlink Parking modernization

Extend asset lifetime by replacing the motherboard

Our Electronic Board replacement services help your charging station operate reliably and efficiently. The motherboard can require replacement due to firmware issued or in order to upgrade to OCPP 1.6 on the EVlink Parking 1.

The upgrade of the electronic board for the EVlink Parking Service provides full Electronic Board replacement. Labor and travel are included with this service.

Benefits

• Extend the lifetime of aging assets
• Modernize your eMobility infrastructure without buying new products
• Postpone full renewal and CapEx investment

EcoStruxure EV Charging Expert Upgrade and Commissioning Package
998-22046477

 Upgrade of the electronic board for EVlink Parking Service
GEX6798200
Get in touch for support

Customer care support

As one of our partners and customers, you have access to our technical support!

We are here for you

Schneider Electric offers bespoke remote support to help you improve your productivity by quickly resolving any technical issues related to your eMobility products, both for the hardware and software.

We speak your language

Your dedicated product specialists are just one phone call away to answer all of your questions and help you with installation, configuration, troubleshooting, and diagnostics of your eMobility products.

Premium Support

Our Premium Support is a highly responsive service adapted to our most loyal customers. It allows us to answer their technical questions faster, with a commitment to a timeframe for response, and suitable resources to resolve the issue at hand.

Benefits

Efficiency through expertise

• Direct access to Advanced Support Agents.

Faster reactivity

• Dedicated Service Level Agreement on Initial Respond Time.

Easier to use

• Multi-channel communication (phone, chat and e-mail support)
• Schedule a session with experts.

Exclusive, personalized access

• mySchneiderPortal / Exclusive FAQ content
Get in touch for support

➤ eMobility Training

Make the most of your staff’s skills, giving them the resources to perform high-end services.

Schneider Electric offers a wide selection of training solutions to enhance your competencies in the right area of expertise. In addition, you could maximize your workforce’s effectiveness through our comprehensive eMobility training and increase the knowledge of features and practices for commissioning, operating and maintaining your EV infrastructure.

➤ Learn more on Schneider Electric website

Select your courses now on the technical training course finder
A professional network

ENE eMobility Partner Program

Schneider Electric eMobility certified experts lead the way towards adopting new technology and processes to deliver high-quality services to our customers.

By becoming part of our partner network, you will be at the forefront of smart charging technology, expand your reach with access to more customers and projects, and benefit from dedicated support to make the difference.

Join our professional network of certified eMobility partners to engage in a continuous specialization path, designed to deliver premium services and differentiate your business.

Benefits

• Gain in-depth knowledge and expertise
• Access to innovative digital tools and technical support
• Co-branding that enables the growth of your business

ENE Mobile Apps for Partners

Easy commissioning with eSetup

eSetup for Electricians is a dedicated app for EVlink Pro AC, Wiser and Facility Expert SB products from Schneider Electric.

• Save time on installation and commissioning since everything can be done within the app.
• Access to the charge details report and maintenance report from the app.

Download the Application

EcoStruxure Facility Expert

A free application to improve your operational efficiency and develop your services business

• Accurate planning of preventive maintenance tasks and interventions which leads to reduced working time
• Greater visibility of your work by easily generated reports that will allow you to create bills faster
• Details of activities undertaken during a given period that will demonstrate the impact of your company’s services
• A way to share information securely internally or externally, as your customers will easily have access to the digital copies of your transactions.

Download the Application
## Services dedicated to AC infrastructures

### Warranty Extension
<table>
<thead>
<tr>
<th>Description</th>
<th>Product</th>
<th>Commercial reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional 1-year Warranty Extension</td>
<td>EVlink Pro AC</td>
<td>EVS2W1B</td>
</tr>
<tr>
<td>Additional 3-year Warranty Extension</td>
<td>EVlink Pro AC</td>
<td>EVS2W3B</td>
</tr>
</tbody>
</table>

### Training
<table>
<thead>
<tr>
<th>Description</th>
<th>Product</th>
<th>Commercial reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Training AC Infrastructure</td>
<td>Training on how to design AC charging Infrastructure</td>
<td>EVS1TB0</td>
</tr>
<tr>
<td></td>
<td>Training on how to install &amp; commission AC charging Infrastructure</td>
<td>EVS1TBIC</td>
</tr>
<tr>
<td></td>
<td>Training on how to operate &amp; maintain AC charging Infrastructure</td>
<td>EVS1TBOM</td>
</tr>
</tbody>
</table>

### Commissioning
<table>
<thead>
<tr>
<th>Description</th>
<th>Product</th>
<th>Commercial reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Remote assistance</td>
<td>Max. 5 EVlink Pro AC charging stations with EcoStruxure EV Charging Expert</td>
<td>EVS1C0R0L</td>
</tr>
<tr>
<td></td>
<td>5 to 15 EVlink Pro AC charging stations with EcoStruxure EV Charging Expert</td>
<td>EVS1C0S0L</td>
</tr>
<tr>
<td></td>
<td>Max. 5 EVlink Pro AC charging stations</td>
<td>EVS1CR0</td>
</tr>
<tr>
<td></td>
<td>5 to 15 EVlink Pro AC charging stations</td>
<td>EVS1CRS</td>
</tr>
<tr>
<td></td>
<td>Option: connection to a supervision solution</td>
<td>EVS1CRCPO</td>
</tr>
<tr>
<td>On-site</td>
<td>Max. 5 EVlink Pro AC charging stations with EcoStruxure EV Charging Expert</td>
<td>EVS1C0F0L</td>
</tr>
<tr>
<td></td>
<td>5 to 15 EVlink Pro AC charging stations with EcoStruxure EV Charging Expert</td>
<td>EVS1C0FSL</td>
</tr>
<tr>
<td></td>
<td>15 to 50 EVlink Pro AC charging stations with EcoStruxure EV Charging Expert</td>
<td>EVS1CFML</td>
</tr>
<tr>
<td></td>
<td>50 to 100 EVlink Pro AC charging stations with EcoStruxure EV Charging Expert</td>
<td>EVS1CFLL</td>
</tr>
<tr>
<td></td>
<td>Max. 5 EVlink Pro AC charging stations</td>
<td>EVS1CF0</td>
</tr>
<tr>
<td></td>
<td>5 to 15 EVlink Pro AC charging stations</td>
<td>EVS1CF5</td>
</tr>
<tr>
<td></td>
<td>15 to 50 EVlink Pro AC charging stations</td>
<td>EVS1CFM</td>
</tr>
<tr>
<td></td>
<td>Option: connection to a supervision solution</td>
<td>EVS1CFCP0</td>
</tr>
</tbody>
</table>

### Service Plan
<table>
<thead>
<tr>
<th>Description</th>
<th>Product</th>
<th>Commercial reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Plan duration</td>
<td>1 year eMobility Service Plan</td>
<td>ECOESSEV1Y</td>
</tr>
<tr>
<td></td>
<td>3 years eMobility Service Plan</td>
<td>ECOESSEV3Y</td>
</tr>
<tr>
<td></td>
<td>5 years eMobility Service Plan</td>
<td>ECOESSEV5Y</td>
</tr>
<tr>
<td>Upgrade Preventive Maintenance</td>
<td>Yearly Preventive Maintenance EVlink Pro AC</td>
<td>ECOESSPRVPA</td>
</tr>
<tr>
<td></td>
<td>Yearly Preventive Maintenance ecoStruxure EV Charging Expert</td>
<td>ECOESSPRVEVCE</td>
</tr>
<tr>
<td>Upgrade Warranty Extension</td>
<td>1 year Warranty Extension EVlink Pro AC</td>
<td>ECOESSPACWE</td>
</tr>
<tr>
<td></td>
<td>1 year Warranty Extension ecoStruxure EV Charging Expert</td>
<td>ECOESSEVECEWE</td>
</tr>
<tr>
<td>Upgrade FSR on-site dispatch</td>
<td>FSR dispatch 8H</td>
<td>ECOESSEVFSLR8H</td>
</tr>
<tr>
<td>(subject to local execution</td>
<td>FSR dispatch 12H</td>
<td>ECOESSEVFSLR12H</td>
</tr>
<tr>
<td>capabilities)</td>
<td>FSR dispatch Next Business Day</td>
<td>ECOESSEVFSLRNB</td>
</tr>
<tr>
<td></td>
<td>FSR dispatch 48H</td>
<td>ECOESSEVFSLR48H</td>
</tr>
</tbody>
</table>

### Modernization
<table>
<thead>
<tr>
<th>Description</th>
<th>Product</th>
<th>Commercial reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVlink Parking modernization</td>
<td>Upgrade of main circuit board, for 1 charge point</td>
<td>EVS1UFFP1B</td>
</tr>
<tr>
<td></td>
<td>Upgrade of main circuit board, for 2 charge point</td>
<td>EVS1UFFP2B</td>
</tr>
<tr>
<td>eMobility Services</td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Commercial references</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

› Services dedicated to DC infrastructures

### Training

<table>
<thead>
<tr>
<th>Description</th>
<th>Product</th>
<th>Commercial reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Training on DC infrastructure</td>
<td>Training on EVlink Pro DC 180 kW – How to Install</td>
<td>EVS1TID100</td>
</tr>
</tbody>
</table>

### Commissioning

<table>
<thead>
<tr>
<th>Description</th>
<th>Product</th>
<th>Commercial reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Commissioning</td>
<td>On-Site Commissioning for 1 EVlink Pro DC ≥ 120 kW</td>
<td>EVS1CFD100</td>
</tr>
</tbody>
</table>

### Service Plan

<table>
<thead>
<tr>
<th>Description</th>
<th>Product</th>
<th>Commercial reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Plan duration</td>
<td>1 year eMobility Service Plan</td>
<td>ECOESSEV1Y</td>
</tr>
<tr>
<td></td>
<td>3 years eMobility Service Plan</td>
<td>ECOESSEV3Y</td>
</tr>
<tr>
<td></td>
<td>5 years eMobility Service Plan</td>
<td>ECOESSEV5Y</td>
</tr>
<tr>
<td>Upgrade Preventive Maintenance</td>
<td>Yearly Preventive Maintenance EVlink Pro AC</td>
<td>ECOESSPRVPCD100</td>
</tr>
<tr>
<td>Upgrade Warranty Extension</td>
<td>1 year Warranty Extension EVlink Pro AC</td>
<td>ECOESSPD100WE</td>
</tr>
<tr>
<td></td>
<td>1 year Warranty Extension ecoStruxure EV Charging Expert</td>
<td>ECOESSPDPMWE</td>
</tr>
<tr>
<td>Upgrade FSR on-site dispatch Service Level Agreement (subject to local execution capabilities)</td>
<td>FSR dispatch 8H</td>
<td>ECOESSEVFSR8H</td>
</tr>
<tr>
<td></td>
<td>FSR dispatch 12H</td>
<td>ECOESSEVFSR12H</td>
</tr>
<tr>
<td></td>
<td>FSR dispatch Next Business Day</td>
<td>ECOESSEVFSRNBD</td>
</tr>
<tr>
<td></td>
<td>FSR dispatch 48H</td>
<td>ECOESSEVFSR48H</td>
</tr>
<tr>
<td>Upgrade site assessment</td>
<td>1 site assessment EVlink Pro DC 180 kW</td>
<td>ECOESSEVSAPD100</td>
</tr>
</tbody>
</table>

### On-Demand Service

<table>
<thead>
<tr>
<th>Description</th>
<th>Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>On-Demand preventive maintenance visit</td>
<td>EVS1PMD100</td>
</tr>
</tbody>
</table>
Electrical Distribution for eMobility

Schneider Electric Power Distribution................................. p. 87

Acti9 Type A-SI or B: Residual Current Devices (RCD) ....... p. 88

ComPact NSX and VigiPacT add-on:
Earth leakage protection..................................................... p. 90

iMNx: undervoltage release tripping unit ......................... p. 91

Metering solutions............................................................... p. 92

Decentralized EV distribution: Canalis™ ......................... p. 94
Increasing use of Electric Vehicle will require an intense growth of charging infrastructure. The vehicle charging needs connection to an electricity supply, the question of electrical distribution is central. The so-called EVSE (electric vehicle supply equipment) are intended to be installed in various environments.

the International Electrotechnical Committee (IEC) defined a set of standards, covering devices for protection (short-circuit, electric shocks, overvoltage) and electrical installation standards.

Please refer to appendix

Overview

### Electrical Protections

- MCCB
- MCB
- RCD
- iMNx

### Energy Efficiency

- Metering solutions
- EcoStruxure Panel Server

### Scalability

- Canalis
- Kaedra
- Pragma
- PrismaSet range

Learn more about Electrical Distribution Solutions
Electrical Distribution for eMobility

**Acti9 Type A-SI or B:**
Residual Current Devices (RCD)

**Electrical protections for residential or buildings applications**

As the EV may reject DC residual current during charging, the selection of type of RCD shall be considered carefully.

* Type A RCD, complying to IEC 61008 or IEC 61009 series can be used in conjunction with an EVSE equipped with a Residual Direct Current Detecting Device (RDC-DD), complying to IEC 62955, intended to detect 6 mA DC residual current.

* Type B RCD provides protection against residual AC, pulsating DC and smooth DC residual currents. It provides also continuity of service in case of small DC residual currents.

**Acti9 iCV40N Type A-SI**

- **Helps protect people** against earth leakage currents from multifrequency components, generated by charging station technology that can cause fibrillation and electrocution.
- **Simplify operation** thanks to VisiSafe™ and VisiTrip™.
- **Monitor and control the electrical panel** with PowerTag and Smartlink auxiliaries.

Acti9 iCV40N RCBO Type A-SI is certified (IEC/EN 61008-2-1)

**Solution diagram**

**Note:** defining protections during the design phase helps to avoid upstream and parallel protection disablement (blinding of upstream and parallel protection due to direct current signal presence).

For more information about selectivity and coordination of protection devices, refer to the earth leakage protection guide reference CA908066E and associated coordination tables.

**Products used**

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Quantity</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVlink Home</td>
<td>EV Charging Station</td>
<td>1</td>
<td>Refer to EVlink Home (p. 8)</td>
</tr>
<tr>
<td>Acti9 iCV40N 1P+N</td>
<td>Residual current breaker with overcurrent protection Type A-SI</td>
<td>1</td>
<td>Specific to country</td>
</tr>
<tr>
<td>Acti9 iMNx</td>
<td>Undervoltage release tripping unit</td>
<td>1</td>
<td>A9A26476</td>
</tr>
</tbody>
</table>
Acti9 Type A-SI or B: Residual Current Devices (RCD)

➤ Acti9 iD B type for EV

- Helps protect people against multifrequency earth leakage currents, generated by charging station technology that can cause fibrillation and electrocution.
- Be installed in coordination with other upstream and parallel RCDs (refer to the Schneider Electric Residual Protection Device guide for coordination tables).

IEC 60364-7-722 standard requires a 30mA residual current protection for direct contact. Acti9 iD B type RCCB for EV is certified (IEC/EN 62423) and is fully compatible with EV charging stations for residential and tertiary applications.

➤ Solution diagram

Products used

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Quantity</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVlink Pro AC</td>
<td>22kw 32A 3PH T2S SOCKET MID embedded - RCD B EV MNX supplied</td>
<td>2</td>
<td>EVB3S22N40MR</td>
</tr>
<tr>
<td>EVlink Pro AC Metal kit</td>
<td>EVlink metallic kit for AC floor standing charger 2 charge points</td>
<td>1</td>
<td>EVA1RFK52</td>
</tr>
<tr>
<td>Kaedra enclosure</td>
<td>IP65 1 x 12 modules of 18mm - 267 x 200 x 112 mm</td>
<td>2</td>
<td>Specific to country</td>
</tr>
<tr>
<td>Acti9 iMNx</td>
<td>Under voltage release tripping unit</td>
<td>2</td>
<td>A9A26969</td>
</tr>
<tr>
<td>Acti9 iID 2P 40 A 30 mA B type EV</td>
<td>RCCB for EV charging station</td>
<td>2</td>
<td>A9Z51240</td>
</tr>
<tr>
<td>MCB 3P+N 40A C curve 6kA/10kA</td>
<td>MCB per charge point</td>
<td>2</td>
<td>Specific to country</td>
</tr>
<tr>
<td>MCB 4P 80A C curve 10kA</td>
<td>MCB protection for EVlink Pro AC Metal in the switchboard</td>
<td>1</td>
<td>Specific to country</td>
</tr>
</tbody>
</table>
ComPact NSX and VigiPacT add-on: Earth leakage protection

ComPact NSX VigiPact add-on
Protection Against Insulation Faults 400/630A, 30mA to 30A, 4 poles. Protections are already integrated in fast charging stations but an additional earth leakage protection may be required to comply with specific local regulations or in case of long wiring.

Depending on the ratings, the additional earth-leakage protection is embedded into the electronic of the trip unit or installed as a ComPacT NSX circuit breaker add-on.

Compliance with standards:
- IEC 60947-2, annex B
- IEC 60755, Type A, immunity to DC components up to 6 mA
- Operation down to -25 °C as per VDE 664

Solution diagram

Current information and protections to use with EVlink Pro DC 120 - 150 - 180 kW

<table>
<thead>
<tr>
<th>Current</th>
<th>Power</th>
<th>Rated current</th>
<th>Max. current</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 kW</td>
<td>193 A</td>
<td>214 A</td>
<td>242 A</td>
</tr>
<tr>
<td>150 kW</td>
<td>242 A</td>
<td>268 A</td>
<td>323 A</td>
</tr>
<tr>
<td>180 kW</td>
<td>291 A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Electrical protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Circuit breaker (overcurrent)</td>
</tr>
<tr>
<td>References</td>
</tr>
<tr>
<td>Optional RCD protection (VigiPact)</td>
</tr>
</tbody>
</table>

*Optional RCD protection included.
Note: if there is plan to upgrade later (from 120 to 150 kW or 150 to 180kW...) already consider the protection sizings for DC 180kW.
iMNx: undervoltage release tripping unit

Undervoltage release tripping unit to increase continuity of service and enhance people protection.

iMNx is an undervoltage release, independent from the supply voltage function which adds a second level of electrical protection.

Regardless of the RDC-DD 6 mA and in accordance with IEC60364-5-53 and EV Ready requirements, the MNx helps to protect people during intervention on electrical equipment and to increase continuity of service. IEC61851 ed3.0 §8.1 also recommends a monitoring solution to provide an isolating function.

Most of EVlink Pro AC charging stations have an embedded iMNx release. If not, iMNx can be supplied with the charging station.

---

**Acti9 iMNx, undervoltage release**

<table>
<thead>
<tr>
<th>Commercial reference</th>
<th>A9A26969</th>
</tr>
</thead>
<tbody>
<tr>
<td>[Uc] control circuit voltage</td>
<td>220...240 V AC 50/60 Hz</td>
</tr>
<tr>
<td>Control type</td>
<td>With external feeding</td>
</tr>
<tr>
<td>9 mm pitches</td>
<td>2</td>
</tr>
<tr>
<td>Width</td>
<td>18 mm</td>
</tr>
</tbody>
</table>

For EVlink Pro AC commercial references with embedded protection

Please refer to page 33
Metering solutions to display the active energy consumed.
- Maximize charging power in residential and small tertiary applications
- Provide a MID certified meter so that the payment and billing is linked to the amount of energy consumption
- Send active energy consumed information in OCPP to a supervision solution with communicating meters.

➤ Standalone meters with external current transformers

**PowerLogic Power meter**

<table>
<thead>
<tr>
<th>Commercial reference</th>
<th>METSEPM5320</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
<td>1 Ethernet port</td>
</tr>
<tr>
<td>Accuracy class</td>
<td>0.5 S</td>
</tr>
<tr>
<td>Dimensions</td>
<td>96 x 96 x 72 mm (H x W x D)</td>
</tr>
<tr>
<td>Consumption</td>
<td>130 mA / 24 V DC - 65 mA / PoE 48 V DC</td>
</tr>
</tbody>
</table>

To be completed with (not provided):
- a closed Current Transformer
- a cut-off device
- a short-circuiting block

PowerLogic PM5000 series power meters offer high-end cost management capabilities in a straightforward metering platform.

**iEM Energy meters - MID**

<table>
<thead>
<tr>
<th>Commercial reference</th>
<th>A9MEM2155</th>
<th>A9MEM3155</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication</td>
<td>Modbus</td>
<td>Modbus</td>
</tr>
<tr>
<td>Accuracy class</td>
<td>Class 1 active energy conforming to IEC 62053-21</td>
<td>Class 1 active energy conforming to IEC 62053-21</td>
</tr>
<tr>
<td></td>
<td>Class 2 reactive energy conforming to IEC 62053-23</td>
<td>Class 1 active energy conforming to IEC 61557-12</td>
</tr>
<tr>
<td></td>
<td>Class B active energy conforming to EN 50470-3</td>
<td>Class B active energy conforming to EN 50470-3</td>
</tr>
<tr>
<td>Width</td>
<td>36 mm</td>
<td>90 mm</td>
</tr>
<tr>
<td>Poles description</td>
<td>1P+N</td>
<td>3P+N</td>
</tr>
<tr>
<td></td>
<td>1P+N</td>
<td>3P</td>
</tr>
</tbody>
</table>

Acti9 iEM3000 series energy meters are cost-attractive, feature-rich energy meters for DIN rails and modular enclosures.
More than just kWh meters, the Acti9 iEM3000 series meters provide a full overview of both energy consumption and on-site generation with full four-quadrant measurements of the active and reactive energy delivered and received.
Metering solutions

▷ Circuit breakers with embedded metering

The Enerlin’X communication system provides access to device status, electrical values and control, using Ethernet and Modbus SL communication protocols.

**Enerlin’X IFE switchboard server for ComPact NSX circuit breaker**

<table>
<thead>
<tr>
<th>Commercial reference</th>
<th>LV434002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enerlin’X IFE provides an Ethernet interface to a ComPact NSX circuit breaker when it has an embedded metering module</td>
<td></td>
</tr>
<tr>
<td>Electrical distribution</td>
<td>3-P-4-P</td>
</tr>
<tr>
<td>Communication</td>
<td>Modbus TCP with circuit breaker</td>
</tr>
<tr>
<td>Metering</td>
<td>charging station energy consumption</td>
</tr>
</tbody>
</table>

**Enerlin’X EIFE Embedded Ethernet interface for drawout Masterpact MTZ**

<table>
<thead>
<tr>
<th>Commercial reference</th>
<th>LV851001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enerlin’X EIFE provides an embedded Ethernet interface to a MasterPact circuit breaker with a Micrologic Control unit that can perform the charging stations metering</td>
<td></td>
</tr>
<tr>
<td>Electrical distribution</td>
<td>3-P-4-P</td>
</tr>
<tr>
<td>Communication</td>
<td>Modbus TCP with circuit breaker</td>
</tr>
<tr>
<td>Metering</td>
<td>charging station energy consumption</td>
</tr>
</tbody>
</table>

▷ IoT gateway for an intelligent power network

EcoStruxure Panel Server is a modular gateway with enhanced cybersecurity that provides easy and fast connections to multiple concurrent edge control or cloud applications.

**EcoStruxure Panel Server**

<table>
<thead>
<tr>
<th>Commercial reference</th>
<th>PAS600 / PAS600L / PAS600T</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet communication</td>
<td>2 Ethernet ports, type 10/100 Base: HTTPS, Modbus TCP/IP, SFTP, SNMP, ARP</td>
</tr>
<tr>
<td>Serial communication</td>
<td>1 serial port (RS-485, 2 wires) – RS232 not supported, Modbus serial protocol</td>
</tr>
<tr>
<td>Power supply</td>
<td>24 VDC, POE, 100-240 VACDC, 100-277 VACDC (different Panel Server references)</td>
</tr>
<tr>
<td>Consumption</td>
<td>3W max for 24 VDC – 5W max for 100-240 VACDC, 100-277 VACDC</td>
</tr>
<tr>
<td>Width</td>
<td>72 mm</td>
</tr>
<tr>
<td>Operating temperature</td>
<td>-25°C to +70°C</td>
</tr>
</tbody>
</table>
Canalis™: Decentralized EV distribution

Canalis busbar trunking system

Decentralized EV charger electrical distribution with the Canalis™ busbar trunking system allows you to save time and cost on installation, and to be ready for future extensions.

Save space in your LV Switchboard and cost in the event of a change in the system*:
- Installation in half the time compared with cables
- Future readiness

Decentralized distribution with Canalis is an optimized solution for indoor car parks and garages, bringing easy servicing and scalability. EVlink terminal distribution kits enable direct connection to the busbar.

*Learn more: EV Charging Solutions for Residential and Commercial Buildings eBrochure 998-22207355
Canalis KN, Canalis KS preassembled protection kits for EV chargers*

Technical specification

2-pole and 4-pole pre-assembled and pre-cabled kits for 1 x 8-module tap-off unit

- 1 x circuit breaker
- 1 x RCD B-type for electric vehicle applications

Offer presentation

Canalis KN,
distribution from 40 to 160 A

<table>
<thead>
<tr>
<th>Charging station power</th>
<th>Description of the kit</th>
<th>Included</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>kW</td>
<td>Tap-off unit</td>
<td>MCB</td>
<td>Kit</td>
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Canalis KS,
distribution from 100 to 1000 A

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<th>Included</th>
<th>References</th>
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</table>

Electrical distribution architectures

- Centralized distribution
- Canalis distribution (decentralized)

* Check availability in your country
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Electric Vehicle additional information

How does it work?

4 major components:

1 Motor
The vehicle has one or more motors. Depending on size and performance, the total power ranges between 15 and 200 kW.
Example: 48 kW (65 hp) for a small 4-seater sedan.

2 Batteries
Huge advances in battery technology have been made in recent years. Lead has gradually been replaced by other, more efficient compounds. Research continues with a view to improving capacity and reducing weight.
The most common technology at present is lithium-ion.
These new batteries have no memory effect and can therefore be charged without having to be completely empty beforehand. They are present in telephones, laptop computers, and some aircraft, as well as in electric vehicles.

3 On-board charger
The vehicle is fitted with one battery charger supplied in AC by the charging station that defines the maximum charging current available. In some vehicles the battery charger may also be supplied in DC by the charging station.

4 Charging inlet
The vehicle is fitted with at least one inlet for AC charging. In some vehicles, the inlet can also be used for DC fast charging or is completed by a second inlet for DC fast charging.
The charging mode determines the protection level

<table>
<thead>
<tr>
<th>Low</th>
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<th>High</th>
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<tr>
<td><strong>Mode 1</strong></td>
<td><strong>Mode 2</strong></td>
<td><strong>Mode 3</strong></td>
</tr>
<tr>
<td>Direct connection</td>
<td>Direct connection</td>
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<tr>
<td>of the vehicle to</td>
<td>of the vehicle to</td>
<td>of the vehicle to</td>
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<tr>
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<td>the grid</td>
<td>the grid</td>
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<tr>
<td>• Non-dedicated</td>
<td>• Non-dedicated</td>
<td>• Non-dedicated</td>
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<tr>
<td>power socket</td>
<td>power socket</td>
<td>power socket</td>
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<tr>
<td>(domestic socket)</td>
<td>(domestic socket)</td>
<td>(domestic socket)</td>
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<tr>
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<td>• Simple cable</td>
<td>• Simple cable</td>
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<tr>
<td>• Risk of</td>
<td>• Risk of</td>
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<td>the United States</td>
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</table>

Indirect connection of the vehicle to the grid via an external charger

• Direct-current external charger incorporating charge monitoring
• Dedicated attached cable

Mode 2, Mode 3 or Mode 4 determines the type of charging connectors

**Mode 2**
- Vehicle inlet
- Domestic socket
- Type 2

**Mode 3**
- Car inlet
- Socket outlet or attached cable
- Type 2
- CCS Combo 2

**Mode 4**
- Car inlet
- DC charging station
- Type 2
- CHAdeMO Combo 2
- Attached cable

Charging cable

A *"COM"* wire allows data communication between the vehicle and the charging station. The charging process starts only if the following information is OK:
- Vehicle earthing
- Indication of the charging cable rating.

*Focus on technology*
The effective charging capacity is that of the weakest "link", for example:

<table>
<thead>
<tr>
<th>Vehicle charger</th>
<th>Cable/charging mode</th>
<th>Charging point</th>
<th>Effective charging capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 kW</td>
<td>2.3 kW (Mode 2)</td>
<td>Domestic power socket</td>
<td>2.3 kW</td>
</tr>
<tr>
<td>7 kW</td>
<td>7.4 kW (Mode 3)</td>
<td>Charging station</td>
<td>7.4 kW</td>
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</table>

The power of the source determines the charging speed*

Example: for a vehicle with a 40 kWh battery:

<table>
<thead>
<tr>
<th>Source used</th>
<th>Domestic power socket</th>
<th>Dedicated AC power socket</th>
<th>Dedicated DC power socket</th>
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<tbody>
<tr>
<td>Power</td>
<td>Single-phase: 2.3 kW</td>
<td>Single-phase: 7.4 kW</td>
<td>Three-phase: 22 kW</td>
</tr>
<tr>
<td>Time to a full charge</td>
<td>18 h</td>
<td>7 h</td>
<td>2h30 min</td>
</tr>
<tr>
<td>% of charge reached in 30 min</td>
<td>3%</td>
<td>7%</td>
<td>20%</td>
</tr>
</tbody>
</table>

* Subject to the use of a suitable cable.

Focus on technology

Electrical distribution architecture

Standalone
One or several charging stations can be connected to the same protection panel. Each charging station operates independently. They are protected upstream and their consumption can be measured. The charging stations can be connected to a supervision solution.

Clustered
An alternative way is to manage energy availability: EcoStruxure EV Charging Expert. This makes it possible to consider various needs related to the use of the vehicles that will be charged. A cluster consists of between 3 and 1000 charging stations, controlled by EcoStruxure EV Charging Expert and a power meter, 3G/4G modem, etc., that can be connected to a supervision solution.
Electric Vehicle standards

Charging an electric vehicle means connection to a powerful electricity supply. All electrical installations should be properly designed, constructed, and treated according to the IEC standards for EV installations.

IEC 61851 standard for EV supply equipment

This standard defines the fundamental aspects of EV charging and contains all the requirements covering the EVSE, as equipment. Therefore, the EVSE must comply with the IEC 61851 series and shall be supplied according to IEC 60364-7-722 Requirements.

IEC 60364 -part 7-722 for Low Voltage installations

The international series of standards for Low Voltage Electrical Installations (IEC 60364 series) contains a new part dedicated to supplies for electric vehicles.

IEC 60364 part 7-722 requires electrical protective measures:

- Protection against short-circuits and overloads with circuit breakers
- Protection against electric shocks and risks of electrocution with a 30 mA RCD.
  
  The RCD shall preferably be of type B, or possibly of type A in case the EVSE contains a 6 mA DC detection

- Protection against overvoltage with a surge protection device (SPD)

Learn more

Wiki Guide for electric vehicle charging

White Paper Safety measures for electric vehicle charging
Possible IT network topologies

4G embedded modem
Each charging station is individually connected to the Charging Station Management System.

4G embedded modem - EVlink Pro AC Cluster
One charging station owns an embedded modem and shares 4G connectivity within a maximum of 9 other charging stations.

Wi-Fi communication - EVlink Pro DC
This communication set-up requests a local Wi-Fi network.
☆ Star topology

Modicon Managed and Unmanaged Switches

The Modicon Networking range offers you a smart and flexible way to integrate Ethernet solutions into your operation, from the device level to the control network and to your corporate network.

Unmanaged switch for star topology

- 4 ports for copper: MCSESU043F23F0
- 8 ports for copper: MCSESU083FN0

Managed switch for ring and daisy chain topologies

- 4 ports for copper: MCSESU043F23F0
- 8 ports for copper: MCSESU083FN0

These managed switches come with the Ethernet TCP/IP protocol. They come with 4 or 8 copper cable transmission ports. They provide simple and complex connectivity for multiple Ethernet devices, network management, enhanced cyber security and more advanced switching features.

Complete range of Modicon Switches

☆ Daisy chain loop topology

☆ Daisy chain topology
EcoStruxure™ EV Charging Expert

Typical load management architectures

Static load management

Single-zone

Multi-zone (multiple switchboards)

To select the right EcoStruxure EV Charging Expert commercial reference based on all available features, please check the selection table on page 61

EcoStruxure EV Charging Expert

- Up to 5 stations: ref. HMIBSCEA53EDB
- Up to 15 stations: ref. HMIBSCEA53D1ESS
- Up to 50 stations: ref. HMIBSCEA53D1ESM

EcoStruxure EV Charging Expert

- From 1 to 5 stations in total, in a maximum of 2 zones: ref. HMIBSCEA53D1EDB
- From 1 to 15 stations in total in 1 single zone: ref. HMIBSCEA53D1ESS
- From 1 to 15 stations in total, in a maximum of 2 zones: ref. HMIBSCEA53D1EDS
- From 1 to 50 stations in total, in a maximum of 10 zones: ref. HMIBSCEA53D1ESM
Dynamic load management

Multi zone

Zone 0
Dynamic current setpoint calculated according to the overall real-time consumption of the building

Zone 1
Fixed current setpoint determined according to the capacity of the divisional panel board

EcoStruxure EV Charging Expert
• Up to 5 stations in a maximum of 2 zones:
  ref. HMIBSCEA53D1EDB
• Up to 15 stations in a maximum of 2 zones:
  ref. HMIBSCEA53D1EDS
• Up to 50 stations in a maximum of 10 zones:
  ref. HMIBSCEA53D1EDM
• Up to 100 stations in a maximum of 20 zones:
  ref. HMIBSCEA53D1EDL

To select the right EcoStruxure EV Charging Expert commercial reference based on all available features, please check the selection table on page 61

(1) No more than 3 cascaded zones.
EcoStruxure™ EV Charging Expert

Typical load management architectures

To select the right EcoStruxure EV Charging Expert commercial reference based on all available features, please check the selection table on page 61

EcoStruxure EV Charging Expert
• HMIBSCEA53D1EDM
• HMIBSCEA53D1EDL
## List of commercial references

### EVlink™ Home and Home Smart

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>References (1)</th>
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<tbody>
<tr>
<td><strong>Charging stations with socket outlet</strong></td>
<td>EVlink Home</td>
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<tr>
<td>T2</td>
<td>EVH4S03N2</td>
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<td>EVH4S07N2</td>
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<td></td>
<td>EVH4S11N2</td>
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<tr>
<td>T2 with shutter</td>
<td>EVH4S03N4</td>
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<td>EVH4S07N4</td>
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<td><strong>Charging stations with attached cable (5 m)</strong></td>
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<td>EVH4S07NC</td>
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### Characteristics

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<tr>
<td>EVlink Home 1P T2S 3.7 kW 16 A - with RDC-DD - TIC</td>
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<td>EVlink Home 1P T2S 7.4 kW 32 A - with RDC-DD - TIC</td>
<td>EVH4S07N400F</td>
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*Only for France

### Accessories

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(1) References to be defined and local availability to be checked by Schneider Electric front offices.
### Appendix

## List of commercial references

### EVlink™ Pro AC and Pro AC Metal

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<tr>
<td>EVlink Pro AC 7.4 kW 32 A 1PH T2S SOCKET 6 mA RCD Type Asi MNX</td>
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<td>EVlink Pro AC 7.4 kW 32 A 1PH T2S SOCKET 6 mA RCD Type Asi MNX MID</td>
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<td>Pack of 10 RFID Badges</td>
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<td>Cable holder for EVlink Pro AC Metal charger</td>
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<td>Permanent T2S socket cable holder EVlink Pro AC</td>
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<td>Pedestal</td>
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<tr>
<td>Pedestal for 1 EVlink Pro AC Charger</td>
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<td>Pedestal for 2 EVlink Pro AC Chargers</td>
<td>EVA1PBS2</td>
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<td>Plate to convert Pedestal for 1 charger to Pedestal for 2 EVlink Pro AC</td>
<td>EVA1PCS2</td>
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<td><strong>Metallic kits</strong></td>
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<td>EVlink Pro AC Metal wall mount 1 charge point kit</td>
<td>EVA1RWKS1</td>
</tr>
<tr>
<td>EVlink Pro AC Metal floor standing 1 charge point kit</td>
<td>EVA1RFKS1</td>
</tr>
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<td>EVlink Pro AC Metal floor standing 2 charge points kit</td>
<td>EVA1RFKS2</td>
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<td><strong>Enclosures</strong></td>
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<td>Thalassa PLS box kit IP66 power cable 25 35⁴</td>
<td>EVA1RFKES</td>
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<td><strong>Communication interface</strong></td>
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<td>4G kit - embedded modem with 2 internal antennas for EVlink Pro AC</td>
<td>EVA1MS</td>
</tr>
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<td>4G kit - embedded 4G modem with an external antenna for EVlink Pro AC Metal</td>
<td>EVA1MM</td>
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<td>Smart meter connection Historical Standard TIC tele information client card EVlink Pro AC</td>
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<td><strong>Charging cables</strong></td>
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¹ References to be defined and local availability to be checked by Schneider Electric front offices.
List of commercial references

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<th>Spare parts</th>
<th>References</th>
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<td>Front panel</td>
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<td>SE white front plate EVlink Pro AC</td>
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<td>T2 attached cable 1PH 32 A 7 meter length EVlink Pro AC</td>
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