

## Set - EV-SET-T2AC-BAS-RCM1-20AC5MES - 1628077

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CHARX start home, Starter kit for easy assembly of a charging station, IEC 62196-2, IEC 61851-1, Mode 3, Case C, 4 kW, 16 A, 230 V AC, cable: 5 m

### Product Description

HOME charging technology set with AC charging cable, with sample assembly and installation instructions for a charging station for E-Mobility (EVSE), including recommendations for further components required (charging contactor, safety equipment), for charging electric vehicles (EV) with alternating current (AC) via Type 2 Vehicle Inlets

### Your advantages

- Set of all Phoenix Contact charging technology products and terminal blocks with recommendations for further components required (charging contactor, safety equipment)
- Convenient ordering, thanks to just one order number for the set, saving you the job of putting together matching components
- Certified in accordance with IATF 16949:2016 and ISO 9001:2015
- Safe use, thanks to verified instructions regarding compatible components
- Stand-alone and simple setup of an AC charging station without additional development effort based on a wiring diagram
- Flexible application options, thanks to comprehensive configuration options and various communication interfaces for the charging controller

### Key Commercial Data

|                      |               |
|----------------------|---------------|
| Packing unit         | 1             |
| GTIN                 |               |
| GTIN                 | 4055626379067 |
| Custom tariff number | 85366990      |

### Technical data

#### Product definition

|                       |   |
|-----------------------|---|
| Type                  | Starter kit                             |
| Application           | for easy assembly of a charging station |
| Standards/regulations | IEC 62196-2                             |
|                       | IEC 61851-1                             |
| Charging standard     | Type 2                                  |
| Charging mode         | Mode 3, Case C                          |

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### Technical data

#### Product definition

|                                     |   |
|-------------------------------------|---|
| Number of supported charging points | 1   |
| Note                                | Set of all Phoenix Contact charging technology products and terminal blocks with recommendations for further components required (charging contactor, safety equipment) |
|                                     | The installation and startup of this device may only be performed by an electrically skilled person. Observe the applicable national standards and regulations.         |
|                                     | The individual components bear a CE marking if legally required.  |

#### Dimensions

|                  |        |
|------------------|--------|
| Conductor length | 5.00 m |
|------------------|--------|

#### Electrical properties

|                          |                 |
|--------------------------|-----------------|
| Type of charging current | AC single-phase |
| Charging power           | 3.7 kW          |
| Charge current           | 16 A            |
| Charging voltage         | 230 V AC        |

#### Charging technology set

|                                    |  |
|------------------------------------|--|
| Type of charging point             | AC charging cable with Vehicle Connector, open cable end, protective cap, holder (park position) |
| Charging controller                | Basic AC charging controller, preconfigured  |
| Residual current monitoring module | 1-channel RCM  |
| Wiring diagram                     | Including download of sample E-Plan  |
| Set consists of                    | 1627354 EV-T2G3C-1AC20A-5,0M2,5ESBK01  |
|                                    | 1624148 EV-T2AC-PARK   |
|                                    | 1622459 EV-CC-AC1-M3-CC-SER-HS   |
|                                    | 1622450 EV-RCM-C1-AC30-DC6   |
|                                    | 3211929 PT 6-TWIN  |
|                                    | 3211485 PT 6-TWIN BU   |
|                                    | 3211498 PT 6-TWIN-PE   |
|                                    | 3209510 PT 2,5   |
|                                    | 3209523 PT 2,5 BU  |
|                                    | 3209536 PT 2,5-PE  |
|                                    | 3211861 PT 4-HESI (5X20)   |
|                                    | 3030284 FBS 2-8  |
|                                    | 3032570 FBS 3-8 BU   |
|                                    | 3030420 D-ST 4   |
|                                    | 3211508 D-PT 6-TWIN  |
|                                    | 3022276 CLIPFIX 35-5   |

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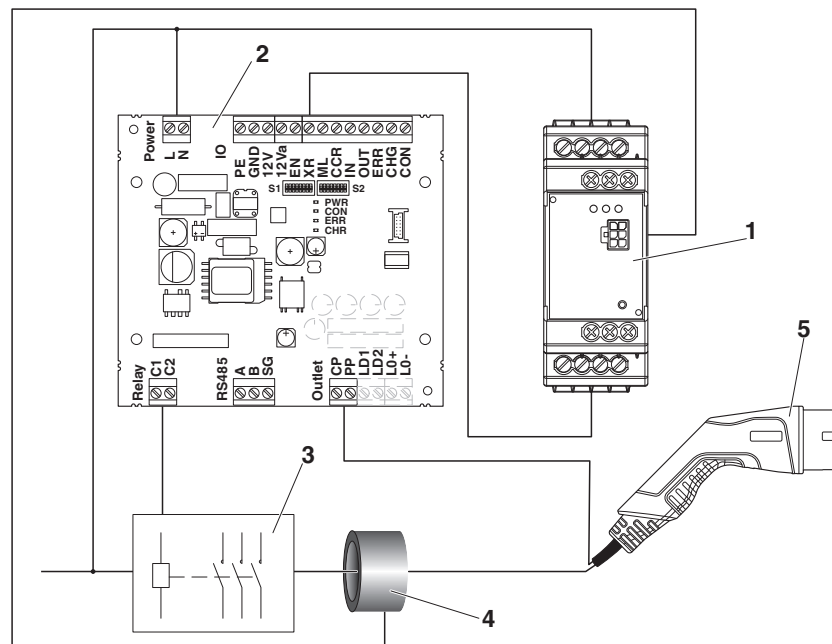
## Technical data

### Environmental Product Compliance

|            |   |
|------------|---|
| REACH SVHC | Lead 7439-92-1  |
| China RoHS | Environmentally Friendly Use Period = 50 years  |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

Connection diagram



Connection drawing:

- 1. RCM, 2. Charging controller, 3. Charging contactor, 4. RCM sensor coil, 5. Charging cable

## Articles in set

AC charging cable - EV-T2G3C-1AC20A-5,0M2,5ESBK01 - 1627354



CHARX connect, AC charging cable with vehicle charging connector and open cable end, with protective cap, Housing color black-gray, for charging electric vehicles (EV) with alternating current (AC) via type 2 vehicle charging inlets, for installation at charging stations for electromobility (EVSE), Type 2, IEC 62196-2, 20 A / 250 V (AC), C-Line, "PHOENIX CONTACT" logo, cable: 5 m, black, straight

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### Articles in set

Charging connector holder - EV-T2AC-PARK - 1624148



AC charging controller - EV-CC-AC1-M3-CC-SER-HS - 1622459



The EV-CC-AC1-M3-CBC-SER-HS charging controller with housing for DIN rail mounting is used for charging electric vehicles at 3-phase AC networks according to IEC 61851-1, Mode 3. Optimized for charging stations with permanently mounted Vehicle Connector. All charging functions and comprehensive configuration settings are already integrated.

Differential current monitoring - EV-RCM-C1-AC30-DC6 - 1622450



The residual current module is used for AC and DC residual current detection in AC charging points. The higher-level safety equipment (e.g., residual current circuit breaker) is protected against potential DC residual currents. A 1 or 2-channel product version is available.

Feed-through terminal block - PT 6-TWIN - 3211929



Feed-through terminal block, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 3, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 8.2 mm, height: 42.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

Feed-through terminal block - PT 6-TWIN BU - 3211485



Feed-through terminal block, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 3, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 8.2 mm, height: 42.2 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

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### Articles in set

#### Ground modular terminal block - PT 6-TWIN-PE - 3211498



Ground modular terminal block, connection method: Push-in connection, number of connections: 3, cross section: 0.5 mm<sup>2</sup> - 10 mm<sup>2</sup>, AWG: 20 - 8, width: 8.2 mm, height: 42.2 mm, color: green-yellow, mounting type: NS 35/7,5, NS 35/15

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#### Feed-through terminal block - PT 2,5 - 3209510



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Push-in connection, number of connections: 2, number of positions: 1, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, width: 5.2 mm, height: 35.3 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

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#### Feed-through terminal block - PT 2,5 BU - 3209523



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Push-in connection, number of connections: 2, number of positions: 1, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, width: 5.2 mm, height: 35.3 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

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#### Ground modular terminal block - PT 2,5-PE - 3209536



Ground modular terminal block, connection method: Push-in connection, number of connections: 2, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, width: 5.2 mm, height: 35.3 mm, color: green-yellow, mounting type: NS 35/7,5, NS 35/15

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#### Fuse modular terminal block - PT 4-HESI (5X20) - 3211861



Fuse modular terminal block, fuse type: Glass / ceramics / ..., number of positions: 1, connection method: Push-in connection, cross section: 0.2 mm<sup>2</sup>- 6 mm<sup>2</sup>, AWG: 24 - 10, nominal current: 6.3 A, nom. voltage: 400 V, width: 6.2 mm, fuse type: G / 5 x 20, mounting type: NS 35/7,5, NS 35/15, color: black

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### Articles in set

Plug-in bridge - FBS 2-8 - 3030284



Plug-in bridge, pitch: 8.2 mm, width: 14.7 mm, number of positions: 2, color: red

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Plug-in bridge - FBS 3-8 BU - 3032570



Plug-in bridge, pitch: 8.2 mm, width: 22.9 mm, number of positions: 3, color: blue

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End cover - D-ST 4 - 3030420



End cover, length: 55.9 mm, width: 2.2 mm, height: 29 mm, color: gray

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End cover - D-PT 6-TWIN - 3211508



End cover, length: 74 mm, width: 2.2 mm, height: 36 mm, color: gray

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End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

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### Classifications

#### eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27144792 |
| eCl@ss 9.0    | 27144792 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 6.0 | EC002884 |
| ETIM 7.0 | EC002884 |