

## Set - EV-SET-T2AC-ADV-RCM2-32AC5MES - 1628081

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TWIN charging technology set starter kit For easy assembly of a charging station, IEC 62196-2, IEC 61851-1, Mode 3, Case C, 22 kW, 32 A, 400 V AC, cable: 5 m

### Product Description

TWIN 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 pc     |
| Custom tariff number | 85366990 |
| Country of origin    | Germany  |

### Technical data

#### Product definition

|                       |  |
|-----------------------|--|
| Type                  | TWIN charging technology set starter kit |
| Application           | For easy assembly of a charging station  |
| Standards/regulations | IEC 62196-2                              |
|                       | IEC 61851-1                              |

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### Technical data

#### Product definition

|                                     |   |
|-------------------------------------|---|
| Charging standard                   | Type 2  |
| Charging mode                       | Mode 3, Case C  |
| Number of supported charging points | 2   |
| 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 3-phase |
| Charging power           | 22 kW      |
| Charge current           | 32 A       |
| Charging voltage         | 400 V AC   |

#### Charging technology set

|                                    |  |
|------------------------------------|--|
| Type of charging point             | AC charging cable with Vehicle Connector, open cable ends, protective caps, holders (park positions) |
| Charging controller                | Advanced AC charging controller  |
| Residual current monitoring module | 2-channel RCM  |
| Wiring diagram                     | Including download of sample E-Plan  |
| Set consists of                    | 1627355 EV-T2G3C-3AC32A-5,0M6,0ESBK01  |
|                                    | 1624148 EV-T2AC-PARK   |
|                                    | 2902802 EM-CP-PP-ETH   |
|                                    | 1622451 EV-RCM-C2-AC30-DC6   |
|                                    | 2900305 PLC-RPT-230UC/21   |
|                                    | 3208760 PT 16-TWIN N   |
|                                    | 3208773 PT 16-TWIN N BU  |
|                                    | 3208786 PT 16-TWIN N-PE  |
|                                    | 3211813 PT 6   |
|                                    | 3211819 PT 6 BU  |
|                                    | 3211822 PT 6-PE  |
|                                    | 3209510 PT 2,5   |
|                                    | 3209549 PT 2,5-TWIN  |
|                                    | 3209552 PT 2,5-TWIN BU   |
|                                    | 3025040 ZFK 6-DREHSI (5X20)  |

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### Technical data

#### Charging technology set

|  |                        |
|--|------------------------|
|  | 3005950 FBS 2-12       |
|  | 3030174 FBS 3-5        |
|  | 3030417 D-ST 2,5       |
|  | 3030488 D-ST 2,5-TWIN  |
|  | 3212044 D-PT 6         |
|  | 3208799 D-PT 16-TWIN N |
|  | 3022276 CLIPFIX 35-5   |

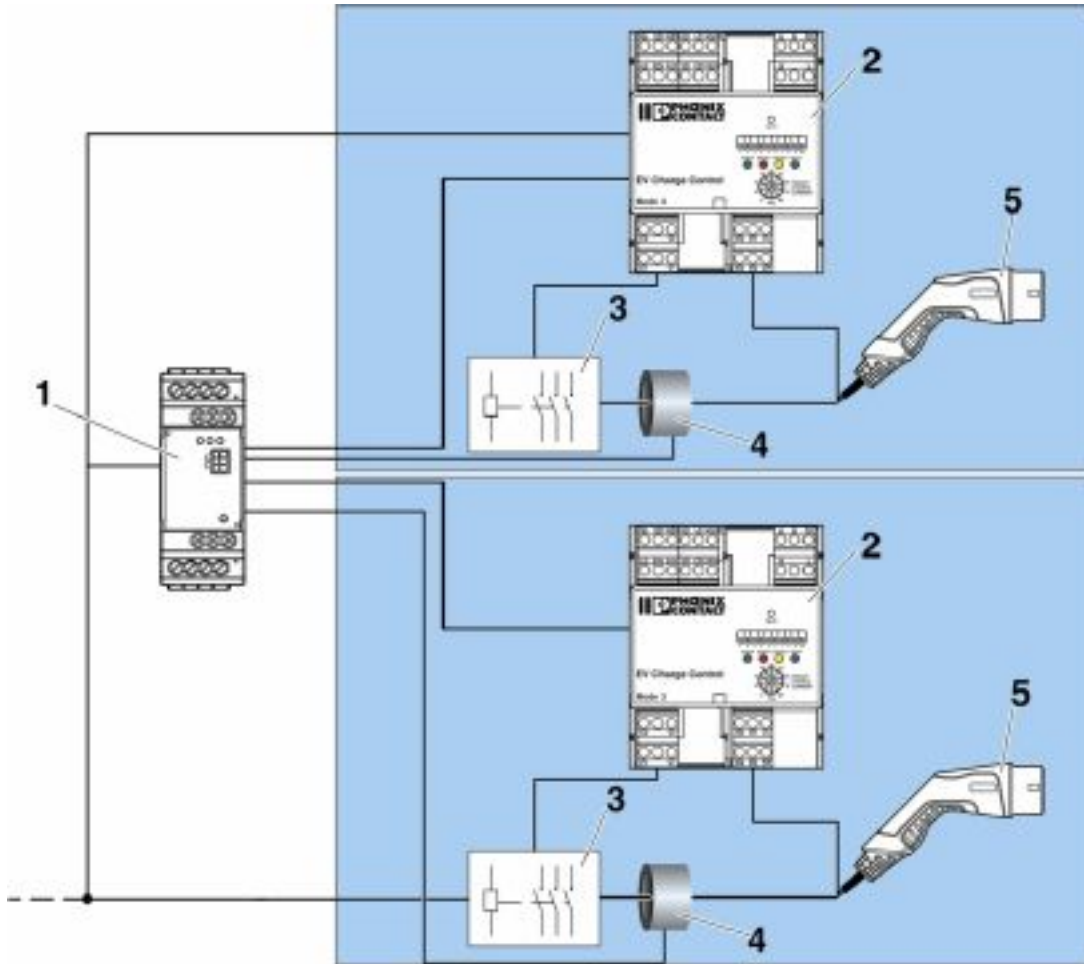
#### Environmental Product Compliance

|            |   |
|------------|---|
| 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

# Set - EV-SET-T2AC-ADV-RCM2-32AC5MES - 1628081

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-3AC32A-5,0M6,0ESBK01 - 1627355



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, 32 A / 480 V (AC), C-Line, "PHOENIX CONTACT" logo, cable: 5 m, black, straight

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### Articles in set

#### Park position - EV-T2AC-PARK - 1624148



Park position, Retainer for Vehicle Connector as parking position at charging stations (EVSE), Type 2, IEC 62196-2, Front mounting

#### AC charging controller - EM-CP-PP-ETH - 2902802



EV charge control is used to charge electrical vehicles on the 3-phase AC mains power supply according to IEC 61851-1 Mode 3. All necessary control functions are integrated. Additional functions are available for various charging applications.

#### Differential current monitoring - EV-RCM-C2-AC30-DC6 - 1622451



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.

#### Relay Module - PLC-RPT-230UC/21 - 2900305



PLC-INTERFACE, consisting of PLC-BPT.../21 basic terminal block with push-in technology and plug-in miniature relay with power contact, for mounting on NS 35/7,5 DIN rails, 1 PDT, input voltage: 230 V AC/220 V DC

#### Feed-through terminal block - PT 16-TWIN N - 3208760



Feed-through terminal block, nom. voltage: 1000 V, nominal current: 76 A, connection method: Push-in connection, number of connections: 3, cross section: 0.5 mm<sup>2</sup> - 25 mm<sup>2</sup>, AWG: 20 - 4, width: 12.2 mm, height: 53.3 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

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### Articles in set

#### Feed-through terminal block - PT 16-TWIN N BU - 3208773



Feed-through terminal block, nom. voltage: 1000 V, nominal current: 76 A, connection method: Push-in connection, number of connections: 3, cross section: 0.5 mm<sup>2</sup> - 25 mm<sup>2</sup>, AWG: 20 - 4, width: 12.2 mm, height: 53.3 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

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#### Ground modular terminal block - PT 16-TWIN N-PE - 3208786



Ground modular terminal block, connection method: Push-in connection, number of connections: 3, cross section: 0.5 mm<sup>2</sup> - 25 mm<sup>2</sup>, AWG: 20 - 4, width: 12.2 mm, height: 53.3 mm, color: green-yellow, mounting type: NS 35/7,5, NS 35/15

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#### Feed-through terminal block - PT 6 - 3211813



Feed-through terminal block, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 2, 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

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#### Feed-through terminal block - PT 6 BU - 3211819



Feed-through terminal block, nom. voltage: 1000 V, nominal current: 41 A, connection method: Push-in connection, number of connections: 2, 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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#### Ground modular terminal block - PT 6-PE - 3211822



Ground modular terminal block, connection method: Push-in connection, number of connections: 2, 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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### Articles in set

#### 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

#### Feed-through terminal block - PT 2,5-TWIN - 3209549



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Push-in connection, number of connections: 3, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, width: 5.2 mm, height: 35.2 mm, color: gray, mounting type: NS 35/7,5, NS 35/15

#### Feed-through terminal block - PT 2,5-TWIN BU - 3209552



Feed-through terminal block, nom. voltage: 800 V, nominal current: 24 A, connection method: Push-in connection, number of connections: 3, cross section: 0.14 mm<sup>2</sup> - 4 mm<sup>2</sup>, AWG: 26 - 12, width: 5.2 mm, height: 35.2 mm, color: blue, mounting type: NS 35/7,5, NS 35/15

#### Fuse modular terminal block - ZFK 6-DREHSI (5X20) - 3025040



Spring-cage terminal block-fuse terminal block for cartridge fuse inserts with screw cap, cross section: 0.5 - 6 mm<sup>2</sup>, width: 12 mm, color: black

#### Plug-in bridge - FBS 2-12 - 3005950



Plug-in bridge, pitch: 12 mm, number of positions: 2, color: red

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### Articles in set

Plug-in bridge - FBS 3-5 - 3030174



Plug-in bridge, pitch: 5.2 mm, length: 22.7 mm, width: 14.2 mm, number of positions: 3, color: red

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End cover - D-ST 2,5 - 3030417



End cover, length: 48.6 mm, width: 2.2 mm, height: 29.1 mm, color: gray

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End cover - D-ST 2,5-TWIN - 3030488



End cover, length: 60.5 mm, width: 2.2 mm, height: 29 mm, color: gray

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End cover - D-PT 6 - 3212044



End cover, length: 57.7 mm, width: 2.2 mm, height: 36 mm, color: gray

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End cover - D-PT 16-TWIN N - 3208799



End cover, length: 100.2 mm, width: 2.2 mm, height: 46 mm, color: gray

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## Set - EV-SET-T2AC-ADV-RCM2-32AC5MES - 1628081

### Articles in set

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 5.0 | EC001321 |
| ETIM 6.0 | EC002884 |
| ETIM 7.0 | EC002884 |