

1271830

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CHARX connect universal, Vehicle charging inlet, for charging electric vehicles (EV) with alternating current (AC), AC type 2, IEC 62196-2, 32 A / 250 V (AC), Single wires, length: 2 m, locking actuator: 12 V, 4-pos., Front and rear mounting, M6, housing: black, A protective cap is supplied as standard for the AC contacts.

Product description

Vehicle charging inlet for charging with alternating current (AC), compatible with type 2 AC vehicle charging connectors (EVSE), for installation in electric vehicles (EV).

Your advantages

- · Complete product range
- · Uniform, space-saving dimensions for the installation space and the screw connection points of all Phoenix Contact vehicle charging inlets
- Developed and produced in accordance with the IATF 16949 automotive standard and ISO 9001
- · Integrated interlock during charging
- · Manual emergency release of the locking actuator
- · Protected and sealed against dirt and water with a high degree of protection

Commercial data

| Item number | 1271830 |
|--------------------------------------|---------------|
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | EM01 |
| Product key | XWCAIC |
| GTIN | 4063151461294 |
| Weight per piece (including packing) | 1,461.7 g |
| Weight per piece (excluding packing) | 146.17 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |



1271830

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Technical data

| NI | ~ | taa | |
|----|---|-----|--|
| IV | u | 165 | |

| | General | A protective cap is supplied as standard for the AC contacts. |
|-----|-------------------|---|
| Pro | oduct properties | |
| | Product type | Vehicle charging inlet |
| | Product family | CHARX connect universal |
| | Application | for charging electric vehicles (EV) with alternating current (AC) |
| | | for installation in electric vehicles (EV) |
| | Charging standard | AC type 2 |
| | Charging mode | Mode 2, 3 |

Electrical properties

| Type of signal transmission | Pulse width modulation with modulated Powerline communication in accordance with ISO/IEC 15118 / DIN SPEC 70121 |
|-------------------------------|---|
| Note on the connection method | Crimp connection, cannot be disconnected |
| Insulation resistance | > 200 MΩ |
| Coding | 4.7 kΩ (between PE and PP) |
| Temperature monitoring | AC contacts: PTC chain (DIN EN 60738-1) |
| Type of charging current | AC single-phase |
| Charging power | 8 kW |
| Charging current | 32 A |

Power contact

| Number | 3 (L1, N, PE) |
|---------------|---------------|
| Rated voltage | 250 V AC |
| Rated current | 32 A AC |

Signal contact

| Number | 2 (CP, PP) |
|---------------|------------|
| Rated voltage | 30 V AC |
| Rated current | 2 A |

Temperature sensors (PTC chain)

| Sensor type | PTC chain |
|------------------------------|-------------------------------------|
| Standards/regulations | DIN EN 60738-1 |
| Attachment point | Sensor for the AC contacts |
| Measuring range_resistance | 790.00 Ω 1420.00 Ω |
| Resistance | max. 1280 Ω ±5 K |
| Recommended measured current | ≤ 1 mA (U _{max} = 16 V DC) |
| Ambient temperature | -40 °C 130 °C (Operation) |
| | |

Locking actuator

| Operating voltage | 12 V |
|-------------------|------|
| | |



1271830

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| Note number of positions | 4-pos. |
|--|-------------------------|
| Position of the locking actuator | right-side |
| Position of the locking actuator | ngnt-side |
| Locking actuator | |
| Operating voltage | 12 V |
| Note number of positions | 4-pos. |
| Position of the locking actuator | right-side |
| Possible power supply range at the motor | 9 V 16 V |
| Maximum voltage for locking detection | 12 V |
| Typical motor current for locking | 0.25 A |
| Reverse current of the motor | max. 1.5 A |
| Max. dwell time with reverse current | 1 s |
| Recommended adaptation time | 600 ms |
| Pause time after entry or exit path | 3 s |
| Service life insertion cycles | > 10000 load cycles |
| Lock recognition | available |
| Mechanical emergency release | available |
| Ambient temperature (operation) | -40 °C 80 °C |
| Dimensions | |
| Width | 73 mm |
| Height | 73 mm |
| Depth | 73 mm |
| | |
| Material specifications | |
| Color (Housing) | black (9005) |
| Color (Mating face) | black (9005) |
| Material (Housing) | Plastic |
| Material (Contact surface) | Silver |
| Cable/line | |
| Cable length | 2 m |
| Cable type | Single wires |
| Single-core wires for AC | |
| Cable length | 2 m |
| Cable structure | 3 x 6 mm² |
| Single wire, material | Silicone |
| Single wire, color | OG |
| External cable diameter | 13.80 mm ±0.3 mm |
| Cable resistance | ≤ 3.2 Ω/km |
| Single-core wires for locking actuator | |
| Cable length | 1.5 m |
| Cable structure | 4 x 0.5 mm ² |
| Single wire, material | PVC |
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1271830

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| Single wire, color | BU/RD, BU/GN, BU/YE, BU/BN | |
|---|----------------------------|--|
| External cable diameter | 1.60 mm ±0.20 mm | |
| Cable resistance | ≤ 37.1 Ω/m | |
| Single-core wires for PTC temperature sensors | | |
| Cable length | 1 m | |
| Cable structure | 2 x 0.5 mm² | |
| Single wire, material | PVC | |
| Single wire, color | BN/GY | |
| External cable diameter | 1.60 mm ±0.20 mm | |
| Cable resistance | ≤ 37.1 Ω/m | |
| Single-core wires for communication | | |
| Cable length | 1 m | |
| Cable structure | 2 x 0.5 mm² | |
| Single wire, material | PVC | |
| Single wire, color | ВК | |
| | WH | |
| External cable diameter | 1.60 mm ±0.20 mm | |
| Cable resistance | ≤ 37.1 Ω/m | |

Mechanical properties

Mechanical data

| | Insertion/withdrawal cycles | > 10000 |
|--|-----------------------------|---------|
| | Insertion force | < 100 N |
| | Withdrawal force | < 100 N |

Environmental and real-life conditions

Ambient conditions

| Degree of protection (Vehicle charging inlet) | IP55 (plugged in; when plugged in and ready to operate, the degree of protection is only ensued if both plug-in components are original products from Phoenix Contact or suitable standard-compliant products) |
|---|--|
| | IP67 (Inner area of vehicle charging inlet) |
| Ambient temperature (operation) | -40 °C 60 °C |
| Ambient temperature (storage/transport) | -40 °C 85 °C |
| Altitude | 4000 m (above sea level) |

Standards and regulations

Standards

| Standards/regulations | IEC 62196-2 |
|-----------------------|-------------|
|-----------------------|-------------|

Mounting

| Mounting type | Front and rear mounting (0 to 90 degree frontal inclination |
|---------------|---|
| | possible) |



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| Mounting hole diameter | 6.80 mm (ø) |
|--|-------------|
| Fixing screws | M6 |
| Screws included in the scope of delivery | none |

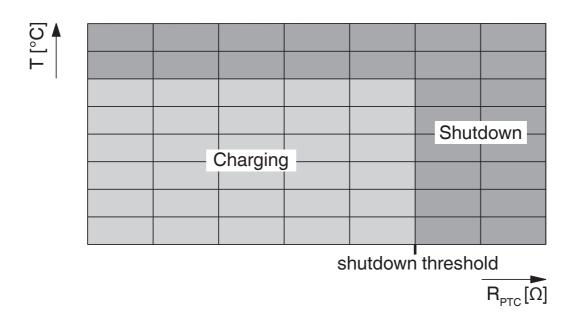


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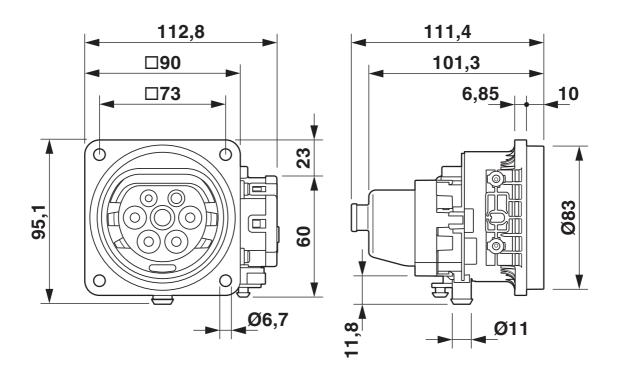
Drawings

Schematic diagram



Temperature sensor technology resistance range at AC contacts

Dimensional drawing

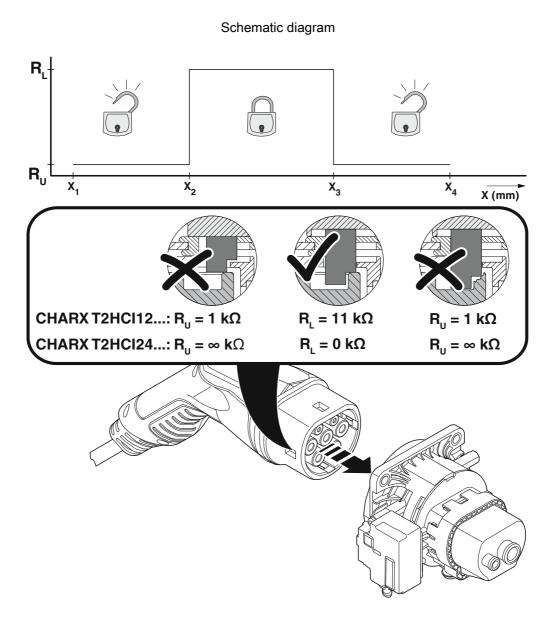


Dimensional drawing



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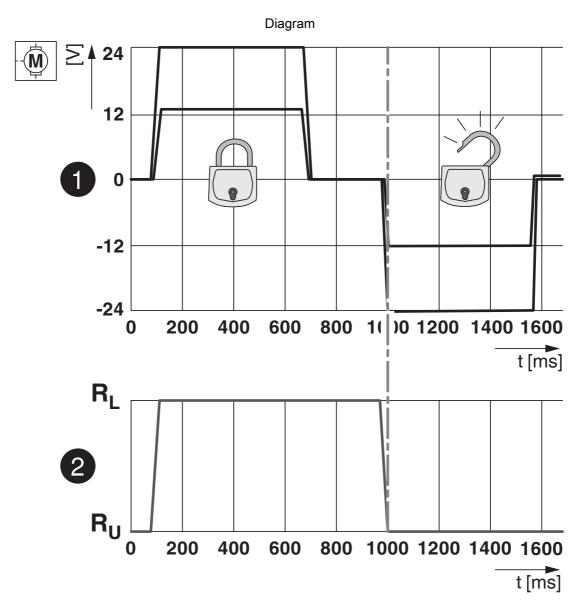


Detection for Vehicle Connector



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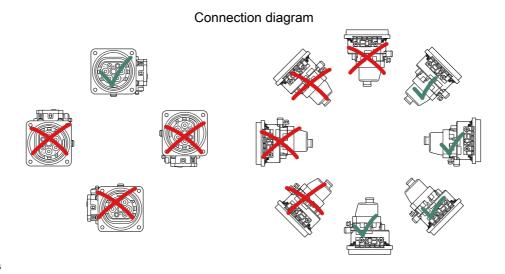


Locking states of the locking actuator



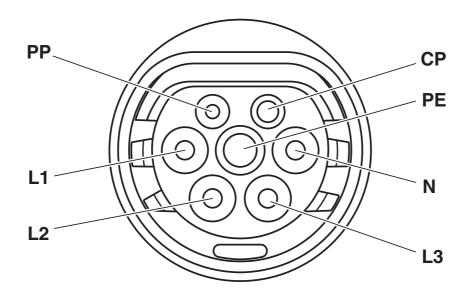
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Installation positions

Connection diagram



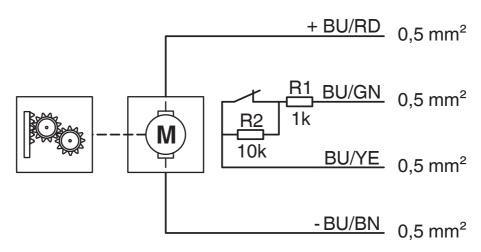
Pin assignment of vehicle charging inlets



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Schematic diagram

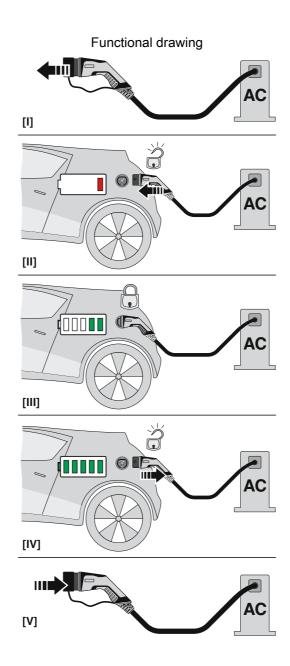


Block diagram of the locking actuator



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Operating instructions



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Classifications

ECLASS

| ECLASS-11.0 | 27144706 |
|-------------|----------|
| ECLASS-12.0 | 27144706 |
| ECLASS-13.0 | 27144706 |

ETIM

| ETIM 9.0 | EC002898 |
|----------|----------|



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Environmental product compliance

EU RoHS

| Fulfills EU RoHS substance requirements | Yes |
|---|--|
| Exemption | 6(c), 7(c)-l |
| China RoHS | |
| Environment friendly use period (EFUP) | EFUP-10 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacture declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |
| EU REACH SVHC | |
| REACH candidate substance (CAS No.) | Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)(CAS: 573 58-0) |
| | Lead(CAS: 7439-92-1) |

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