

# CHARX T1HBI-FLAP-COMplete - Protective cover



1778090

<https://www.phoenixcontact.com/us/products/1778090>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



CHARX connect universal, AC/DC CCS Typ 1, Protective cover, Accessories, square, M6, with status indicator via freely controllable RGB LED, with cancel charging button, for mounting on vehicle charging inlets, UNECE R61

## Product description

Protective cover for vehicle charging inlets

## Your advantages

- Reliable protection of all signal and power contacts against jet water in accordance with IPX5
- Smart operation: when the DC cover is opened, the AC cover is automatically opened as well
- Easy design-in due to identical screw-connection geometries for CCS type 1 and CCS type 2
- Optional extras: cancel charging button and status indicator with freely controllable RGB LED
- Compatible with our CHARX control vehicle charging controller

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1778090       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | EM01          |
| Product key                          | XWCAFO        |
| GTIN                                 | 4067923393660 |
| Weight per piece (including packing) | 367 g         |
| Weight per piece (excluding packing) | 262 g         |
| Customs tariff number                | 85389099      |
| Country of origin                    | DE            |

# CHARX T1HBI-FLAP-COMplete - Protective cover



1778090

<https://www.phoenixcontact.com/us/products/1778090>

## Technical data

### Product properties

|                           |                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------|
| Product type              | Protective lid                                                                       |
| Product family            | CHARX connect universal                                                              |
| Type                      | Accessories                                                                          |
| Design                    | with status indicator via freely controllable RGB LED<br>with cancel charging button |
| Compatibility             | CHARX CCS Type 1 vehicle charging inlets                                             |
| Charging standard         | AC/DC CCS Typ 1                                                                      |
| Design (Protective cover) | square                                                                               |

### Electrical properties

#### RGB LED

|                 |                                                           |
|-----------------|-----------------------------------------------------------|
| Application     | to display the charging status                            |
| Connection type | Connection via HMI module with 3 x PWM inputs and 1 x GND |
| Current         | 20 mA (Pulse width modulation, PWM)                       |
| Voltage         | 5 V DC (Pulse width modulation, PWM)                      |

#### Cancel charging button

|                 |                                                              |
|-----------------|--------------------------------------------------------------|
| Connection type | Connection via HMI module with 2 x inputs                    |
| Voltage range   | 5 V DC ... 24 V DC (2 connections via 6-pos. MCON connector) |

### Dimensions

#### Protective cover

|                     |          |
|---------------------|----------|
| Dimensional drawing |          |
| Width               | 170.7 mm |
| Height              | 184.4 mm |
| Depth               | 41 mm    |

### Material specifications

|                             |              |
|-----------------------------|--------------|
| Color (Protective cover)    | black (9005) |
| Material (Protective cover) | Plastic      |

### Mechanical properties

|                        |              |
|------------------------|--------------|
| Type of cover movement | Self-opening |
|------------------------|--------------|

### Environmental and real-life conditions

# CHARX T1HBI-FLAP-COMplete - Protective cover



1778090

<https://www.phoenixcontact.com/us/products/1778090>

## Ambient conditions

|                                         |                        |
|-----------------------------------------|------------------------|
| Degree of protection (Protective cover) | IPX5 (in closed state) |
| Degree of protection (HMI module)       | IP67 (in preparation)  |
| Ambient temperature (operation)         | -40 °C ... 85 °C       |

## Standards and regulations

### Standards

|                       |           |
|-----------------------|-----------|
| Standards/regulations | UNECE R61 |
|-----------------------|-----------|

## Mounting

|               |    |
|---------------|----|
| Fixing screws | M6 |
|---------------|----|

# CHARX T1HBI-FLAP-COMplete - Protective cover

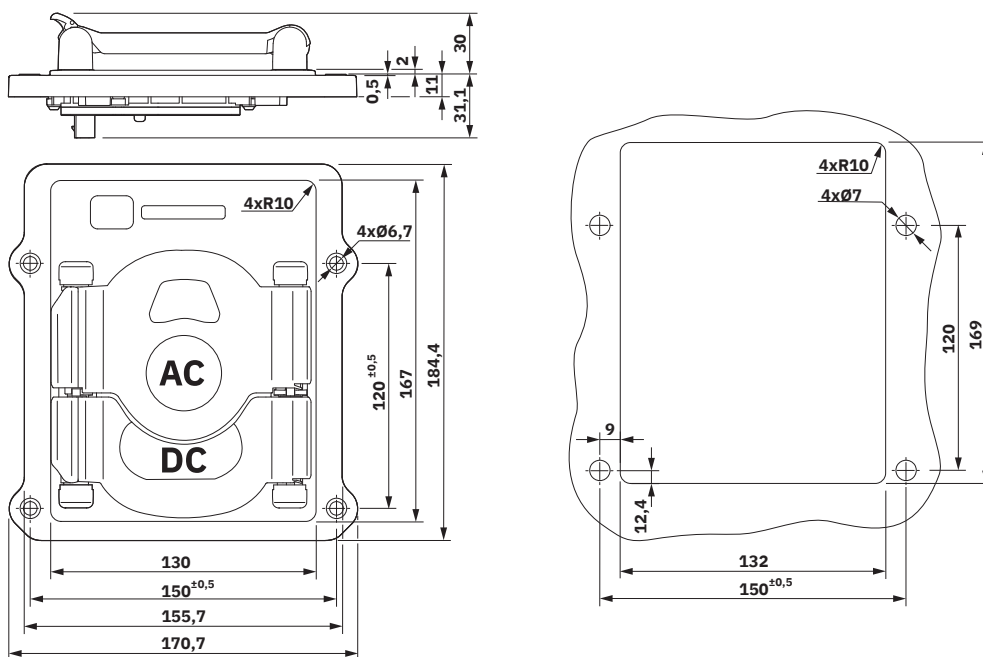


1778090

<https://www.phoenixcontact.com/us/products/1778090>

## Drawings

Dimensional drawing



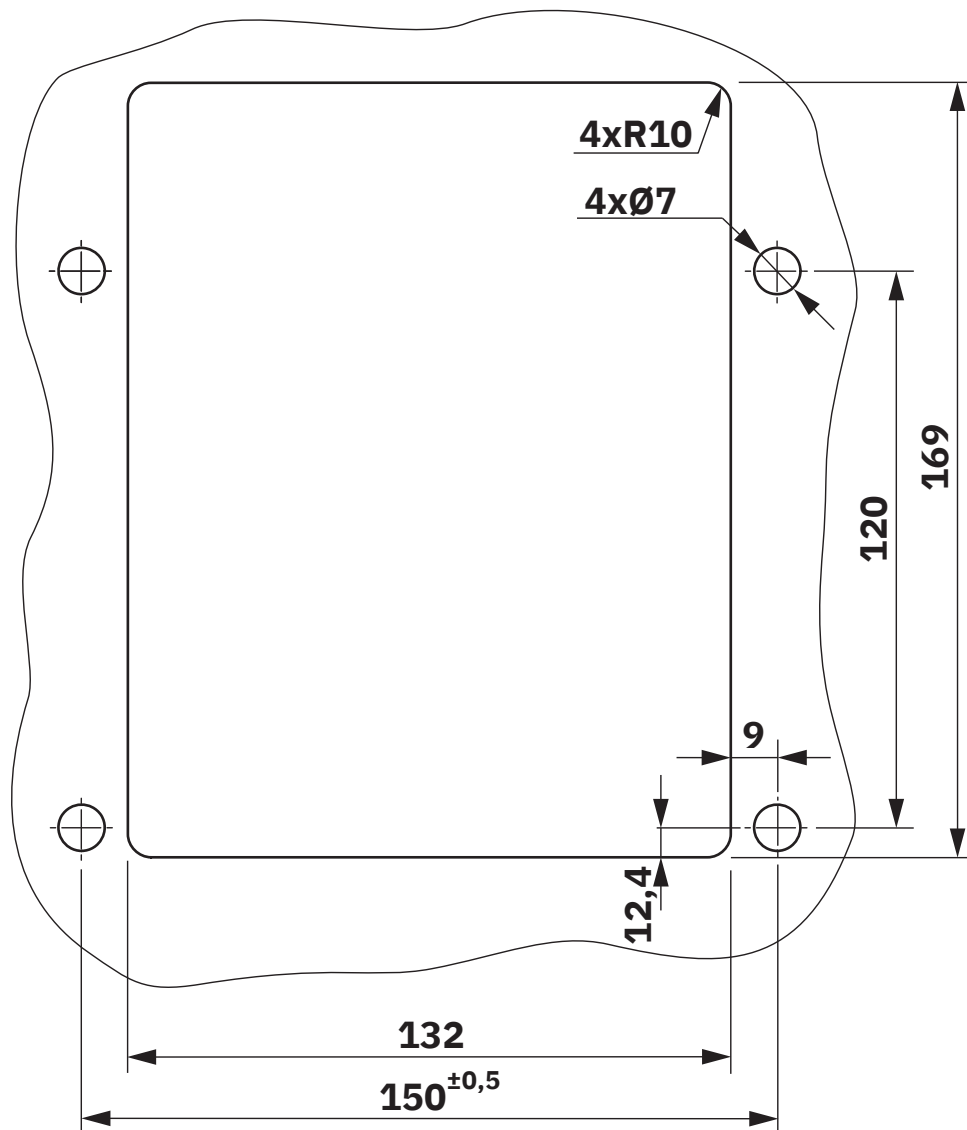
# CHARX T1HBI-FLAP-COMplete - Protective cover



1778090

<https://www.phoenixcontact.com/us/products/1778090>

Dimensional drawing

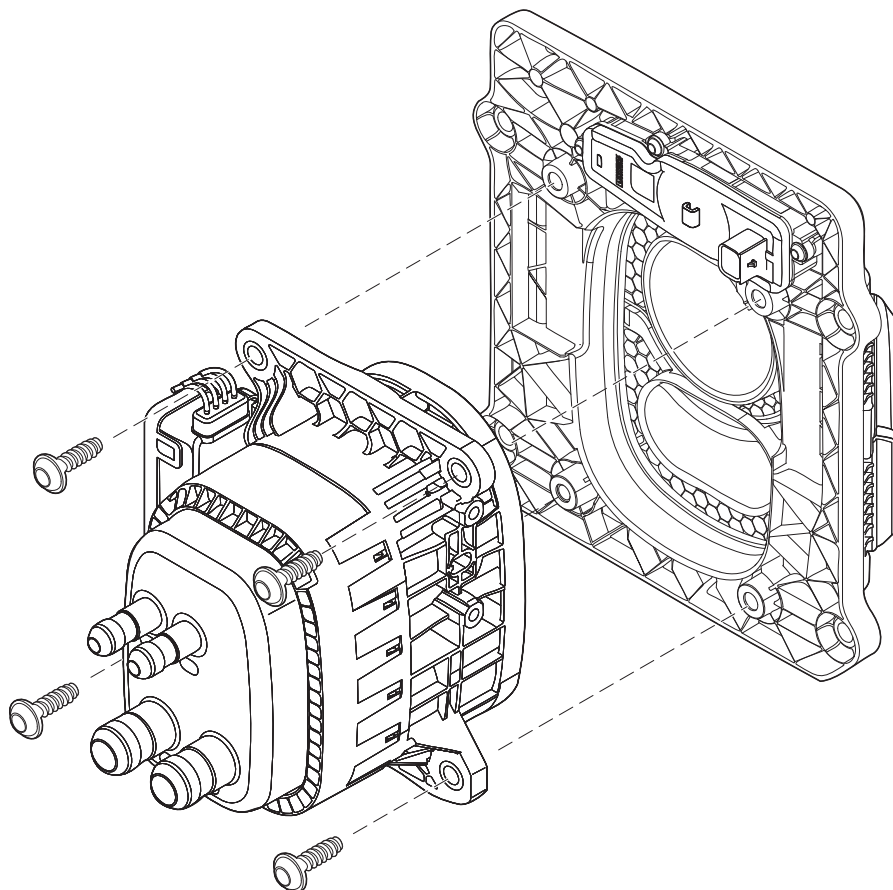


# CHARX T1HBI-FLAP-COMPLETE - Protective cover

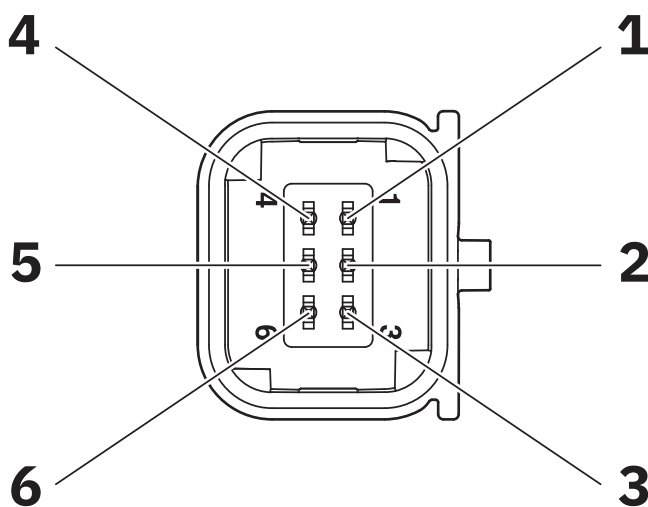
1778090

<https://www.phoenixcontact.com/us/products/1778090>

Exploded view



Connection diagram



# CHARX T1HBI-FLAP-COMplete - Protective cover



1778090

<https://www.phoenixcontact.com/us/products/1778090>

## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27144792 |
| ECLASS-15.0 | 27144792 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC002884 |
|-----------|----------|

# CHARX T1HBI-FLAP-COMplete - Protective cover



1778090  
<https://www.phoenixcontact.com/us/products/1778090>

## Environmental product compliance

|                                         |                                                                                     |
|-----------------------------------------|-------------------------------------------------------------------------------------|
| EU RoHS                                 |                                                                                     |
| Fulfills EU RoHS substance requirements | Not applicable, No electrical and electronic equipment (EEE), cannot be used in EEE |
| EU REACH SVHC                           |                                                                                     |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%                                                          |

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

Phoenix Contact USA  
586 Fulling Mill Road  
Middletown, PA 17057, United States  
(+717) 944-1300  
[info@phoenixcon.com](mailto:info@phoenixcon.com)