

## Voltage monitoring device - EM-EV-CLR-12V - 2903246


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's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



The EV Charge Lock Release monitors the 12 V operating voltage of the electrically driven plug locking actuator, routes locking and unlocking signals, and sends an unlocking pulse to the actuator when the operating voltage fails.



### Key Commercial Data

Packing unit	1
GTIN	 4 046356 728843
GTIN	4046356728843
Custom tariff number	85389091

### Technical data

#### Product definition

Application	Locking release module in the event of mains failure for AC charging controllers for commercial applications (EU)
Standards/regulations	IEC 61851-1
	EN 61000-6-2
	EN 61000-6-3
Charging standard	Type 2
Charging mode	Mode 3
Number of supported charging points	1
Locking release in the event of mains failure	Integrated release function of the locking actuator for disconnection of Infrastructure Plug and Infrastructure Socket Outlet
Conformance	CE-compliant

#### Dimensions

Height	90 mm
--------	-------

# Voltage monitoring device - EM-EV-CLR-12V - 2903246

## Technical data

### Dimensions

Width	35.6 mm
Depth	61.00 mm

### Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 60 °C
Degree of protection	IP20

### Inputs

Number of digital inputs	1
Frequency range	50 Hz ... 60 Hz
Nominal power consumption	< 0.5 W (No-load)
Nominal current $I_N$	approx. 5 mA
Nominal input voltage $U_N$	12 V
Input voltage range U1	-3 V ... 3 V (Off)
Input voltage range U2	-30 V ... -10 V (Locking ON)
Input voltage range U3	10 V ... 30 V (Unlocking ON)

### Switching outputs

Control of locking actuator	Relay output OUT+/-
Minimum switching capacity	46 VA
Maximum switching voltage	approx. 11.5 V (Operating/capacitor voltage minus the diode voltage of ~ 0.5 V)
Max. switching current	4 A
Current carrying capacity	$\leq 4$ A

### Connection data

Connection method	Screw connection
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross section solid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross section AWG	24 ... 12

### Device supply

Supply voltage	12 V DC $\pm 5$ %
Supply voltage range	12 V DC $\pm 5$ %
Max. current consumption	4 mA (in idle state)
Current carrying capacity	$\leq 4$ A

### Mounting

Mounting position	any
-------------------	-----

### Environmental Product Compliance

# Voltage monitoring device - EM-EV-CLR-12V - 2903246

## 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"

## Classifications

### eCl@ss

eCl@ss 10.0.1	27144703
eCl@ss 11.0	27144703
eCl@ss 4.0	27210900
eCl@ss 4.1	27371100
eCl@ss 5.0	27242700
eCl@ss 5.1	27242700
eCl@ss 6.0	27242200
eCl@ss 7.0	27242207
eCl@ss 9.0	27144703

### ETIM

ETIM 3.0	EC001505
ETIM 4.0	EC001599
ETIM 6.0	EC002889
ETIM 7.0	EC002889

### UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121535
UNSPSC 11	39121535
UNSPSC 12.01	39121535
UNSPSC 13.2	39121801
UNSPSC 18.0	39121801
UNSPSC 19.0	39121801
UNSPSC 20.0	39121801
UNSPSC 21.0	39121801

## Accessories

### Accessories

AC charging controller

## Voltage monitoring device - EM-EV-CLR-12V - 2903246

### Accessories

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.

---

### Infrastructure socket outlet

Socket Outlet - EV-T2M3SE12-3AC32A-0,7M6,0E10 - 1405214



CHARX connect, Socket Outlet, rear protective cover screw connection, For charging electric vehicles (EV) with alternating current (AC), Compatible with infrastructure charging plugs, Type 2, IEC 62196-2, 32 A / 480 V (AC), Single wires, length: 0.7 m, Locking actuator: 12 V, 4-position, Rear panel mounting, Generation 1, "PHOENIX CONTACT" logo

---

### Power supply

Power supply unit - STEP-PS/ 1AC/12DC/1 - 2868538



Primary-switched STEP POWER power supply for DIN rail mounting, input: 1-phase, output: 12 V DC/1 A