

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



2903246

<https://www.phoenixcontact.com/us/products/2903246>

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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.

## Commercial data

Item number	2903246
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	XWBRBY
GTIN	4046356728843
Weight per piece (including packing)	132 g
Weight per piece (excluding packing)	124 g
Country of origin	DE

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## Technical data

### Product properties

Product type	Voltage monitoring relay
Product family	CHARX control advanced
Charging standard	Type 2
Charging mode	Mode 3
Operating mode	Stand-Alone
Modem for communication present	no
Number of charging points	1

### Electrical properties

Type of charging current	AC 3-phase
Supply	
Supply voltage	12 V DC $\pm 5\%$
Current consumption	max. 4 mA (in idle state)
Current carrying capacity	$\leq 4$ A

### Input data

#### Digital

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)

### Output data

#### Switching

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

### Interfaces

Locking release in the event of mains failure	Integrated release function of the locking actuator for disconnection of Infrastructure Plug and Infrastructure Socket Outlet
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## Dimensions

### Charging controller

Width	35.6 mm
Height	90 mm
Depth	61 mm

## Environmental and real-life conditions

### Ambient conditions

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

## Standards and regulations

### Standards

Standards/regulations	IEC 61851-1
	EN 61000-6-2
	EN 61000-6-3

## Mounting

Mounting type	DIN rail mounting
Mounting position	any

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## Classifications

### ECLASS

ECLASS-15.0	27144703
ECLASS-13.0	27144703

### ETIM

ETIM 10.0	EC002889
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### UNSPSC

UNSPSC 21.0	39121800
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

### China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

### EU REACH SVHC

REACH candidate substance (CAS No.)	Hexahydromethylphthalic anhydride(CAS: n/a)
	Lead(CAS: 7439-92-1)
	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol(CAS: 79-94-7)
SCIP	3e1dadb2-2907-4480-90e1-38d7ddcecef8

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