

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 | XWBBBB |
| Catalog page | Page 61 (C-7-2019) |
| GTIN | 4046356728843 |
| Weight per piece (including packing) | 133.6 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 |
| Application | Locking release module in the event of mains failure for AC charging controllers for commercial applications (EU) |
| Operating mode | Stand-Alone |
| Charging standard | Type 2 |
| Charging mode | Mode 3 |

System properties

Charging controllers

| | |
|---------------------------|---|
| Number of charging points | 1 |
|---------------------------|---|

Electrical properties

| | |
|---|---|
| Type of charging current | AC 3-phase |
| Locking release in the event of mains failure | Integrated release function of the locking actuator for disconnection of Infrastructure Plug and Infrastructure Socket Outlet |

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 | ≤ 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 capacity | 46 VA |
| Maximum switching voltage | approx. 11.5 V (Operating/capacitor voltage minus the diode voltage of ~ 0.5 V) |

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| | |
|---------------------------|-------|
| Max. switching current | 4 A |
| Current carrying capacity | ≤ 4 A |

Dimensions

| | |
|--------|----------|
| Width | 35.6 mm |
| Height | 90 mm |
| Depth | 61.00 mm |

Environmental and real-life conditions

Ambient conditions

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

Approvals

Conformity/Approvals

| | |
|-------------|--------------|
| Conformance | CE-compliant |
|-------------|--------------|

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-12.0 | 27144703 |
| ECLASS-11.0 | 27144703 |
| ECLASS-13.0 | 27144703 |

ETIM

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| ETIM 9.0 | EC002889 |
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UNSPSC

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| UNSPSC 21.0 | 39121800 |
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Environmental product compliance

| | |
|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| | Hexahydromethylphthalic anhydride |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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