

# PLC-RPT-230UC/21HC/EX - Relay Module



2909534

<https://www.phoenixcontact.com/us/products/2909534>

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PLC-INTERFACE, consisting of DIN-rail-mountable basic terminal block in 14 mm with Push-in connection and plug-in relay with 10 A power contact, 1 changeover contact, 230 V AC/220 V DC input voltage. Approved according to ATEX/IECEx (Zone 2) and Ex Zone Class I, Div. 2.

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2909534             |
| Packing unit                         | 10 pc               |
| Minimum order quantity               | 10 pc               |
| Sales key                            | C461                |
| Product key                          | CK623A              |
| Catalog page                         | Page 387 (C-5-2019) |
| GTIN                                 | 4055626363714       |
| Weight per piece (including packing) | 75.35 g             |
| Weight per piece (excluding packing) | 66.45 g             |
| Customs tariff number                | 85364900            |
| Country of origin                    | DE                  |

## Technical data

### Notes

#### Utilization restriction

|          |   |
|----------|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---|

### Product properties

|                         |   |
|-------------------------|---|
| Product type            | Relay Module  |
| Product family          | PLC-INTERFACE   |
| Application             | High continuous currents<br>potentially explosive areas |
| Operating mode          | 100% operating factor                                   |
| Mechanical service life | 3x 10 <sup>7</sup> cycles                               |

#### Insulation characteristics

|            |                                       |
|------------|---------------------------------------|
| Insulation | Safe isolation, reinforced insulation |
|------------|---------------------------------------|

#### Insulation characteristics: Standards/regulations

|                      |                                       |
|----------------------|---------------------------------------|
| Insulation           | Safe isolation, reinforced insulation |
| Overvoltage category | III                                   |
| Pollution degree     | 3                                     |

### Electrical properties

|   |  |
|---|--|
| Maximum power dissipation for nominal condition | 1.04 W                                   |
| Test voltage (Winding/contact)                  | 4 kV AC (50 Hz, 1 min., winding/contact) |

#### Standards/regulations

|                          |          |
|--------------------------|----------|
| Rated insulation voltage | 250 V AC |
| Rated surge voltage      | 6 kV     |

### Input data

#### Coil side

|                                |                                    |
|--------------------------------|------------------------------------|
| Nominal input voltage $U_N$    | 230 V AC                           |
|                                | 220 V DC                           |
| Input voltage range            | 179.4 V AC ... 264.5 V AC (20 °C)  |
|                                | 171.6 V DC ... 264 V DC (20 °C)    |
| Drive and function             | monostable                         |
| Drive (polarity)               | polarized                          |
| Typical input current at $U_N$ | 4.5 mA                             |
| Typical response time          | 7 ms                               |
| Typical release time           | 10 ms                              |
| Protective circuit             | Bridge rectifier; Bridge rectifier |
| Operating voltage display      | Yellow LED                         |

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## Output data

### Switching

|   |   |
|---|---|
| Contact switching type                        | 1 changeover contact  |
| Type of switch contact                        | Single contact  |
| Contact material                              | AgNi  |
| Maximum switching voltage                     | 250 V AC/DC (The separating plate PLC-ATP should be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules. Potential bridging is then carried out with FBST 8-PLC... or ...FBST 500...) |
| Minimum switching voltage                     | 12 V AC/DC (10 mA)  |
| Limiting continuous current                   | 10 A<br>6 A (value applies to connections 12. If connections 12 are bridged, the normal value applies.)   |
| Maximum inrush current                        | 30 A (300 ms)   |
| Min. switching current                        | 10 mA (12 V)  |
| Interrupting rating (ohmic load) max.         | 240 W (at 24 V DC)<br>58 W (at 48 V DC)<br>48 W (at 60 V DC)<br>50 W (at 110 V DC)<br>80 W (at 220 V DC)<br>2500 VA (for 250 V AC)  |
| Interrupting rating (ohmic load) max. bridged | 144 W (for 24 V DC. Value applies to connections 12. If connections 12 are bridged, the normal value applies.)<br>1500 VA (for 250 V AC. Value applies to connections 12. If connections 12 are bridged, the normal value applies.)           |
| Switching capacity                            | 2 A (at 24 V, DC13)<br>0.2 A (at 110 V, DC13)<br>0.2 A (at 250 V, DC13)<br>6 A (at 24 V, AC15)<br>6 A (at 120 V, AC15)<br>6 A (at 250 V, AC15)  |

### Connection data

|                                  |   |
|----------------------------------|---|
| Connection method                | Push-in connection  |
| Stripping length                 | 10 mm   |
| Conductor cross section rigid    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup><br>0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Single ferrule)<br>2x 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule) |
| Conductor cross section AWG      | 26 ... 14   |

### Dimensions

|        |       |
|--------|-------|
| Width  | 14 mm |
| Height | 80 mm |
| Depth  | 94 mm |

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## Material specifications

|  |                 |
|--|-----------------|
| Color                                  | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0 (Housing)    |

## Environmental and real-life conditions

### Ambient conditions

|   |  |
|---|--|
| Degree of protection (Relay)            | RT III (Relay)   |
| Degree of protection (Relay base)       | IP20 (Relay base)  |
| Ambient temperature (operation)         | -20 °C ... 60 °C (UL)<br>-40 °C ... 55 °C (ATEX / IECEx) |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C   |

## Approvals

### CE

|             |              |
|-------------|--------------|
| Certificate | CE-compliant |
|-------------|--------------|

### ATEX

|                |                            |
|----------------|----------------------------|
| Identification | ⊕ II 3G Ex ec nC IIC T4 Gc |
| Certificate    | IBExU16ATEXB015 X          |

### IECEx

|                |                    |
|----------------|--------------------|
| Identification | Ex ec nC IIC T4 Gc |
| Certificate    | IECEx IBE 16.0029X |

### UKCA Ex (UKEX)

|                |                             |
|----------------|-----------------------------|
| Identification | ⊕ II 3 G Ex ec nC IIC T4 Gc |
| Certificate    | PxCIF21UKEX2909514X         |

### UL, USA

|                |                                   |
|----------------|-----------------------------------|
| Identification | Class I, Zone 2, AEx nA nC IIC T6 |
|----------------|-----------------------------------|

### UL, USA/Canada

|                |                                    |
|----------------|------------------------------------|
| Identification | Class I, Div. 2, Groups A, B, C, D |
|----------------|------------------------------------|

### UL, Canada

|                |                                       |
|----------------|---------------------------------------|
| Identification | Class I, Zone 2, Ex nA nC IIC Gc T6 X |
|----------------|---------------------------------------|

### Shipbuilding approval

|             |            |
|-------------|------------|
| Certificate | TAE0000196 |
|-------------|------------|

### Corrosive gas test

|                |   |
|----------------|---|
| Identification | ISA-S71.04. G3 Harsh Group<br>EN 60068-2-60 |
|----------------|---|

### DNV GL data

|             |   |
|-------------|---|
| Temperature | D |
| Humidity    | A |

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|           |   |
|-----------|---|
| Vibration | B/C   |
| EMC       | B   |
| Enclosure | Required protection according to the Rules shall be provided upon installation on board |

## EMC data

|                               |  |
|-------------------------------|--|
| Low Voltage Directive         | Conformance with Low Voltage Directive |
| Electromagnetic compatibility | Conformance with EMC directive         |

## Standards and regulations

### Standards/regulations

|                       |                     |
|-----------------------|---------------------|
| Standards/regulations | IEC 60664           |
|                       | EN 50178            |
|                       | EN 60079-0, -7, -15 |

## Mounting

|                       |                           |
|-----------------------|---------------------------|
| Mounting type         | DIN rail mounting         |
| Assembly instructions | in rows with zero spacing |
| Mounting position     | any                       |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27371601 |
| ECLASS-12.0 | 27371601 |
| ECLASS-13.0 | 27371601 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001437 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39122300 |
|-------------|----------|

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