

# PLC-RPT-230AC/21-21/SO46/HI - Relay Module



1079389

<https://www.phoenixcontact.com/in/products/1079389>

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PLC-INTERFACE consisting of PLC-BSC.../21-21/SO46/HI basic terminal block with Push-in connection and plug-in miniature relay with power contact, 2 changeover contacts, nominal input voltage of 230 V AC, with defined activation and deactivation thresholds

## Commercial Data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 1079389             |
| Packing unit                         | 10 pc               |
| Minimum order quantity               | 10 pc               |
| Sales Key                            | CK6                 |
| Product Key                          | CK623C              |
| Catalog Page                         | Page 392 (C-5-2019) |
| GTIN                                 | 4055626797380       |
| Weight per Piece (including packing) | 63.06 g             |
| Weight per Piece (excluding packing) | 63.06 g             |
| Customs tariff number                | 85364900            |
| Country of origin                    | DE                  |

## Technical Data

### Product properties

|                         |                                |
|-------------------------|--------------------------------|
| Product type            | Relay Module                   |
| Product family          | PLC-INTERFACE                  |
| Application             | Filter to prevent interference |
| Operating mode          | 100% operating factor          |
| Mechanical service life | 3x 10 <sup>7</sup> cycles      |

### Insulation characteristics

|            |  |
|------------|--|
| Insulation | Basic insulation   |
|            | Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths |

### Insulation characteristics: Air clearances and creepage distances between the power circuits

|                      |  |
|----------------------|--|
| Insulation           | Basic insulation   |
|                      | Safe isolation, reinforced insulation, and 6 kV between input circuit and output contact current paths |
| Overvoltage category | III  |
| Pollution degree     | 2  |

### Electrical properties

|  |  |
|--|--|
| Maximum power dissipation for nominal condition      | 1.04 W   |
| Test voltage (Winding/contact)                       | 4 kV AC (50 Hz, 1 min., winding/contact)                         |
| Test voltage (Changeover contact/changeover contact) | 2.5 kV AC (50 Hz, 1 min., changeover contact/changeover contact) |

### Air clearances and creepage distances between the power circuits

|                     |      |
|---------------------|------|
| Rated surge voltage | 4 kV |
|---------------------|------|

### Input data

#### Coil side

|                                   |  |
|-----------------------------------|--|
| Nominal input voltage $U_N$       | 230 V AC                               |
| Input voltage range               | 190 V AC ... 264 V AC (20 °C)          |
| Switch-on threshold               | 190 V AC                               |
| Switch-off threshold              | 170 V AC                               |
| Drive and function                | monostable                             |
| Drive (polarity)                  | polarized                              |
| Typical input current at $U_N$    | 14 mA (50 Hz)                          |
| Input power dissipation for $U_N$ | 3 VA                                   |
| Typical response time             | 10 ms                                  |
| Typical release time              | 8 ms                                   |
| Coil voltage                      | 110 V DC                               |
| Protective circuit                | Bridge rectifier                       |
| Input circuit                     | RC element with threshold value switch |

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|                           |            |
|---------------------------|------------|
| Operating voltage display | Yellow LED |
|---------------------------|------------|

## Output data

### Switching

|                                       |   |
|---------------------------------------|---|
| Contact switching type                | 2 changeover contacts   |
| 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             | 5 V AC/DC (10 mA)   |
| Limiting continuous current           | 6 A   |
| Maximum inrush current                | 15 A (300 ms)   |
| Min. switching current                | 10 mA (5 V)   |
| Interrupting rating (ohmic load) max. | 140 W (at 24 V DC)<br>85 W (at 48 V DC)<br>60 W (at 60 V DC)<br>44 W (at 110 V DC)<br>57 W (at 220 V DC)<br>1500 VA (for 250 V AC)  |
| Switching capacity                    | 2 A (at 24 V, DC13)<br>0.2 A (at 250 V, DC13)<br>3 A (at 24 V, AC15)<br>3 A (at 120 V, AC15)<br>3 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 |

## Material specifications

|  |              |
|--|--------------|
| Flammability rating according to UL 94 | V0 (Housing) |
|--|--------------|

## Environmental and real-life conditions

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## Ambient conditions

|  |                                |
|--|--------------------------------|
| Degree of protection (Relay)                 | RT III (Relay)                 |
| Degree of protection (Relay base)            | IP20 (Relay base)              |
| Degree of protection (Installation location) | ≥ IP54 (Installation location) |
| Ambient temperature (operation)              | -40 °C ... 50 °C               |
| Ambient temperature (storage/transport)      | -40 °C ... 85 °C               |
| Altitude                                     | ≤ 2000 m                       |

## Approvals

### Corrosive gas test

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

## Standards and regulations

### Air clearances and creepage distances between the power circuits

|                       |               |
|-----------------------|---------------|
| Standards/regulations | IEC 60947-5-1 |
|-----------------------|---------------|

## Mounting

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

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