

# PLC-RPT-24DC/1/SSI - Relay module



1094767

<https://www.phoenixcontact.com/us/products/1094767>

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PLC-INTERFACE, consisting of basic terminal block with Push-in connection and plug-in miniature relay with internal amplifier circuit and an appropriate auxiliary supply for weak signal sources, 1 N/O contact, 24 V DC nominal input voltage

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1094767                        |
| Packing unit                         | 10 pc                          |
| Minimum order quantity               | 10 pc                          |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | C461                           |
| Product key                          | DK62A6                         |
| GTIN                                 | 4055626921600                  |
| Weight per piece (including packing) | 32.12 g                        |
| Weight per piece (excluding packing) | 32.12 g                        |
| Customs tariff number                | 85364190                       |
| Country of origin                    | DE                             |

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## Technical data

### Product properties

|                         |                           |
|-------------------------|---------------------------|
| Product type            | Relay Module              |
| Product family          | PLC-INTERFACE             |
| Application             | weak signal sources       |
| Operating mode          | 100% operating factor     |
| Mechanical service life | 2x 10 <sup>7</sup> cycles |

### Data management status

|                              |            |
|------------------------------|------------|
| Date of last data management | 01.04.2026 |
|------------------------------|------------|

### Electrical properties

|   |       |
|---|-------|
| Maximum power dissipation for nominal condition | 0.2 W |
|---|-------|

### Insulation characteristics: Coil/contact

|                                 |       |
|---------------------------------|-------|
| Rated insulation voltage        | 250 V |
| Rated impulse withstand voltage | 6 kV  |
| Overvoltage category            | III   |
| Degree of pollution             | 3     |

### Supply

|  |              |
|--|--------------|
| Nominal supply voltage                         | 24 V DC (Us) |
| Voltage range with reference to U <sub>S</sub> | 0.8 ... 1.2  |
| Input current                                  | 9 mA         |

### Input data

#### Coil side

|  |                         |
|--|-------------------------|
| Nominal input voltage U <sub>N</sub>                 | 24 V DC                 |
| Input voltage range                                  | 19.2 V DC ... 28.8 V DC |
| Nominal voltage (plugged-in electromechanical relay) | 24 V DC                 |
| Drive and function                                   | monostable              |
| Drive (polarity)                                     | polarized               |
| Typical input current at U <sub>N</sub>              | 1 mA                    |
| Typical response time                                | 5 ms                    |
| Typical release time                                 | 7 ms                    |
| Protective circuit                                   | Surge protection        |
| Operating voltage display                            | Yellow LED              |

### Output data

#### Switching

|                         |                |
|-------------------------|----------------|
| Contact switching type  | 1 N/O contact  |
| Type of switch contact  | Single contact |
| Contact connection type | Power contact  |

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|                                       |   |
|---------------------------------------|---|
| Contact material                      | AgSnO                                     |
| Maximum switching voltage             | 250 V AC/DC                               |
| Minimum switching voltage             | 12 V AC/DC                                |
| Limiting continuous current           | 6 A                                       |
| Maximum inrush current                | 10 A (4 s)                                |
| Min. switching current                | 10 mA                                     |
| Short-circuit current                 | 200 A (conditional short-circuit current) |
| Interrupting rating (ohmic load) max. | 140 W (at 24 V DC)                        |
|                                       | 20 W (at 48 V DC)                         |
|                                       | 18 W (at 60 V DC)                         |
|                                       | 23 W (at 110 V DC)                        |
|                                       | 40 W (at 220 V DC)                        |
|                                       | 1500 VA (for 250 V AC)                    |
| Switching power min.                  | 120 mW                                    |
| Output fuse                           | 4 A gL/gG NEOZED                          |

## 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>                 |
|                                  | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Single ferrule) |
|                                  | 2x 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule)  |
| Conductor cross-section AWG      | 26 ... 14  |

## Dimensions

### Item dimensions

|        |        |
|--------|--------|
| Width  | 6.2 mm |
| Height | 80 mm  |
| Depth  | 94 mm  |

## Material specifications

|       |                 |
|-------|-----------------|
| Color | gray (RAL 7042) |
|-------|-----------------|

## Environmental and real-life conditions

### Ambient conditions

|  |                                |
|--|--------------------------------|
| Degree of protection (Relay base)            | IP20 (Relay base)              |
| Degree of protection (Installation location) | ≥ IP54 (Installation location) |
| Ambient temperature (operation)              | -25 °C ... 60 °C               |
| Ambient temperature (storage/transport)      | -40 °C ... 85 °C               |
| Altitude                                     | ≤ 2000 m                       |

## Approvals

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## CE

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

## UKCA

|             |                |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

## Shipbuilding approval

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

## Corrosive gas test

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

## Shipbuilding data

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

## EMC data

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

## Standards and regulations

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

## Drawings

Diagram



① 250 V AC, ohmic load

Electrical service life

Diagram



Permissible humidity for operation and storage.

The maximum permissible ambient temperature as specified in the data sheet must be observed.

Area A: Ice buildup at ambient temperatures ≤ 0°C must be prevented

Area B: Condensation at ambient temperatures > 0°C must be prevented

On 30 full days that are naturally distributed across an entire year, a humidity level of 95% is permissible at an ambient temperature ≤ 25°C.

Circuit diagram



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## Approvals

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**EAC**

Approval ID: RU D-DE.B\*00573/18



**cULus Listed**

Approval ID: E140324



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27371601 |
| ECLASS-15.0 | 27371601 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001437 |
|-----------|----------|

### UNSPSC

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

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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.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 364adbe1-15b9-49f4-8cab-bbd8f47401c7 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 0.863 kg CO2e |
|---------|---------------|

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