

# PLC-RPT-230UC/21-21AU/RWF - Relay module



2900345

<https://www.phoenixcontact.com/us/products/2900345>

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PLC-INTERFACE for railway applications, consisting of basic terminal block with Push-in connection and plug-in miniature relay with multi-layer gold contact, range: 0.75 x UN to 1.15 x UN, nominal input frequency 16.7 Hz, 2 changeover contacts, input voltage 230 V AC

## Your advantages

- Vibration and shock resistance in accordance with EN 50155
- Safe isolation between coil and contact side
- Nominal input frequency of 16.7 Hz
- Screw- and Push-in connection

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 2900345       |
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 10 pc         |
| Sales key                            | C461          |
| Product key                          | DK62BL        |
| GTIN                                 | 4046356507547 |
| Weight per piece (including packing) | 62.41 g       |
| Weight per piece (excluding packing) | 60.2 g        |
| Customs tariff number                | 85364900      |
| Country of origin                    | DE            |

## Technical data

### Product properties

|                         |                                |
|-------------------------|--------------------------------|
| Product type            | Relay Module                   |
| Product family          | PLC-INTERFACE                  |
| Application             | Railway applications           |
| Operating mode          | 100% operating factor          |
| Mechanical service life | approx. $3 \times 10^7$ cycles |

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

|                      |                  |
|----------------------|------------------|
| Insulation           | Basic insulation |
| Overvoltage category | III              |
| Pollution degree     | 2                |

Data management status

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

### Electrical properties

|   |                                       |
|---|---------------------------------------|
| Maximum power dissipation for nominal condition | 1.1 W                                 |
| Test voltage (Winding/contact)                  | 6 kV (50 Hz, 1 min., winding/contact) |

Air clearances and creepage distances between the power circuits

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

### Input data

Coil side

|  |                                   |
|--|-----------------------------------|
| Nominal input voltage $U_N$                          | 230 V AC                          |
| Input voltage range                                  | 172.5 V AC ... 264.5 V AC (20 °C) |
| Nominal voltage (plugged-in electromechanical relay) | 110 V DC                          |
| Mains frequency                                      | 16.67 Hz                          |
| Drive and function                                   | monostable                        |
| Drive (polarity)                                     | polarized                         |
| Typical input current at $U_N$                       | 4.8 mA (with AC)                  |
| Typical response time                                | 20 ms                             |
| Typical release time                                 | 60 ms                             |
| Protective circuit                                   | Bridge rectifier                  |
| Operating voltage display                            | Yellow LED                        |

### Output data

Switching

|                        |                        |
|------------------------|------------------------|
| Contact switching type | 2 changeover contacts  |
| Type of switch contact | Single contact         |
| Contact material       | AgNi, hard gold-plated |

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|                                       |   |
|---------------------------------------|---|
| Note                                  | If the specified maximum values are exceeded, the gold plating is destroyed. The AgNi contact values are then valid for further operation; a reduction in length of service life is to be expected. |
| Maximum switching voltage             | 30 V AC   |
|                                       | 36 V DC   |
| Minimum switching voltage             | 100 mV  |
| Limiting continuous current           | 50 mA   |
| Maximum inrush current                | 50 mA   |
| Min. switching current                | 1 mA  |
| Interrupting rating (ohmic load) max. | 1.2 W (24 V DC)   |
| Switching capacity                    | 2 A (24 V (DC13), in acc. with DIN VDE 0660/IEC 60947)  |
|                                       | 0.2 A (220 V DC / 230 V AC (DC13), in acc. with DIN VDE 0660/IEC 60947)   |
|                                       | 3 A (220 V DC / 230 V AC (AC15), in acc. with DIN EVDE 0660/IEC 60947)  |

Switching: when the gold layer is destroyed

|                                       |   |
|---------------------------------------|---|
| Note                                  | the following values are applicable if a gold layer is destroyed  |
| Contact material                      | AgNi  |
| Maximum switching voltage             | 250 V AC/DC (Separating plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal blocks in adjacent modules.) |
| Minimum switching voltage             | 5 V AC/DC   |
| Limiting continuous current           | 6 A   |
| Maximum inrush current                | 8 A   |
| Min. switching current                | 10 mA   |
| Interrupting rating (ohmic load) max. | 140 W (at 24 V DC)  |
|                                       | 85 W (at 48 V DC)   |
|                                       | 60 W (at 60 V DC)   |
|                                       | 44 W (at 110 V DC)  |
|                                       | 60 W (at 220 V DC)  |
|                                       | 1500 VA (for 250 V AC)  |
| Switching capacity                    | 2 A (at 24 V, DC13)   |
|                                       | 0.2 A (at 110 V, DC13)  |
|                                       | 0.2 A (at 250 V, DC13)  |
|                                       | 2 A (at 24 V, AC15)   |
|                                       | 2 A (at 120 V, AC15)  |
|                                       | 2 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>                 |
|                                  | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Single ferrule) |

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

## Dimensions

### Item dimensions

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

## Material specifications

|  |                 |
|--|-----------------|
| Color  | gray (RAL 7042) |
| Flammability rating according to UL 94 (Housing) | 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)         | -25 °C ... 55 °C  |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C  |

## Approvals

### CE

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

### Corrosive gas test

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

## EMC data

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

## Standards and regulations

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

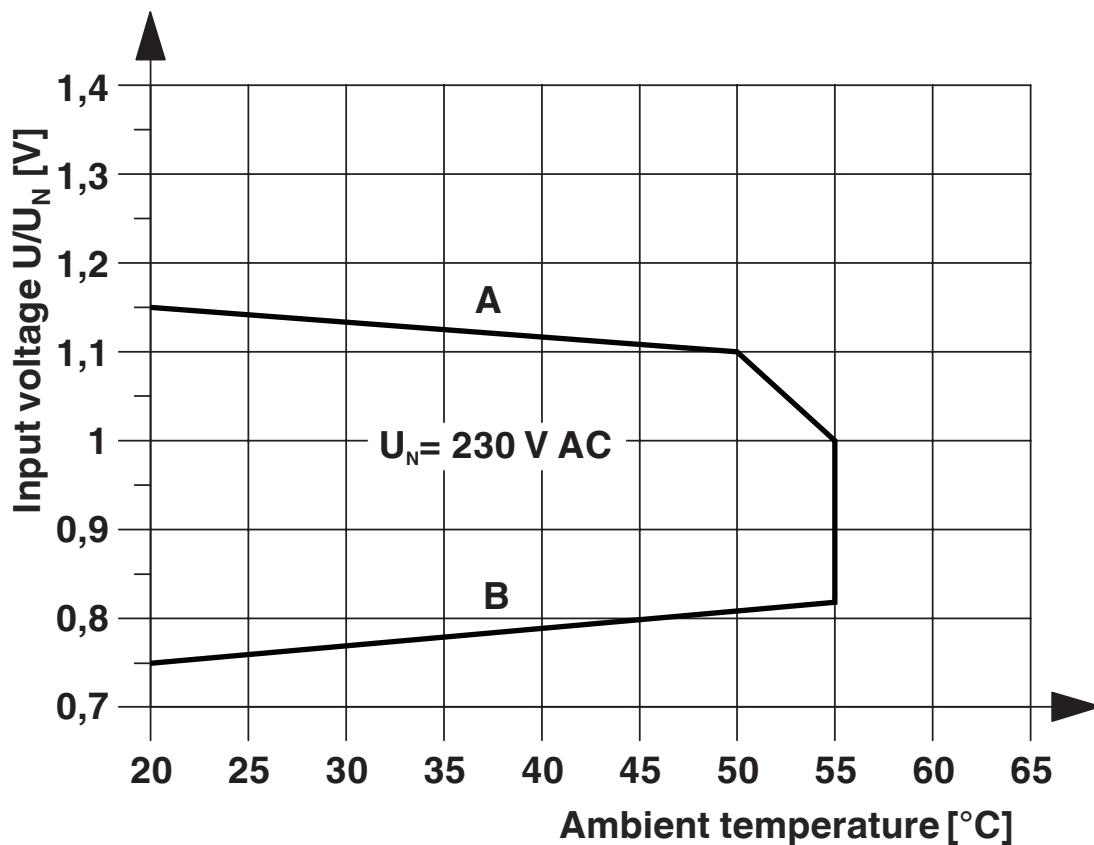
|                       |               |
|-----------------------|---------------|
| Standards/regulations | IEC 60947-5-1 |
|-----------------------|---------------|

## Mounting

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

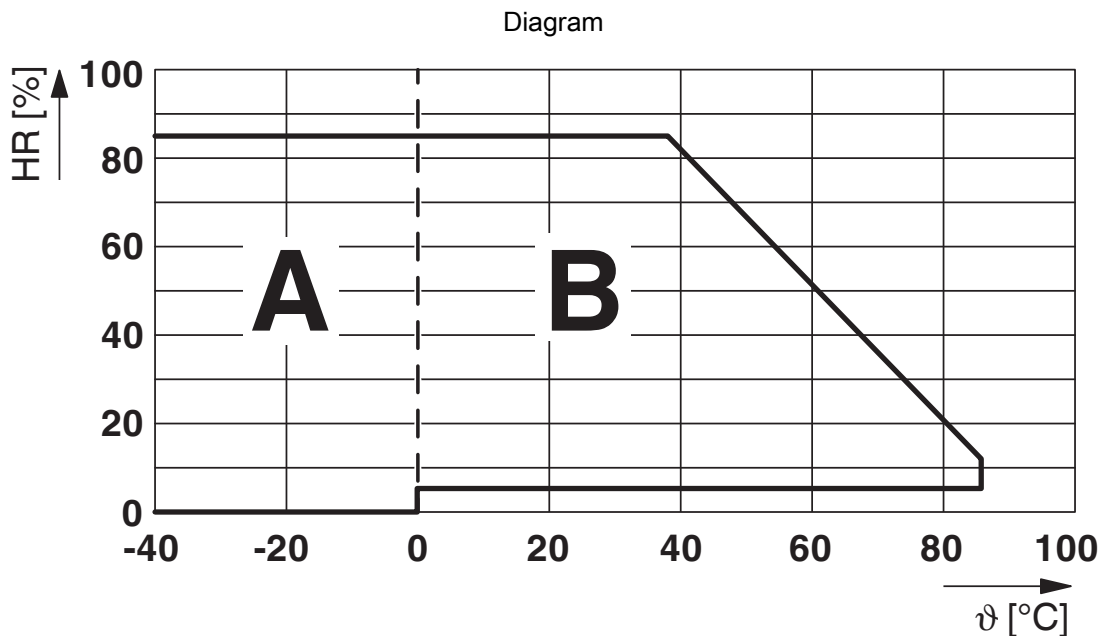
Drawings

Diagram



**Curve A:**  
 Maximum continuous operating voltage  
 at limiting continuous current = 6 A

**Curve B:**  
 Minimum relay operating voltage at initial  
 trigger with  $U_N$  and limiting continuous current = 6 A



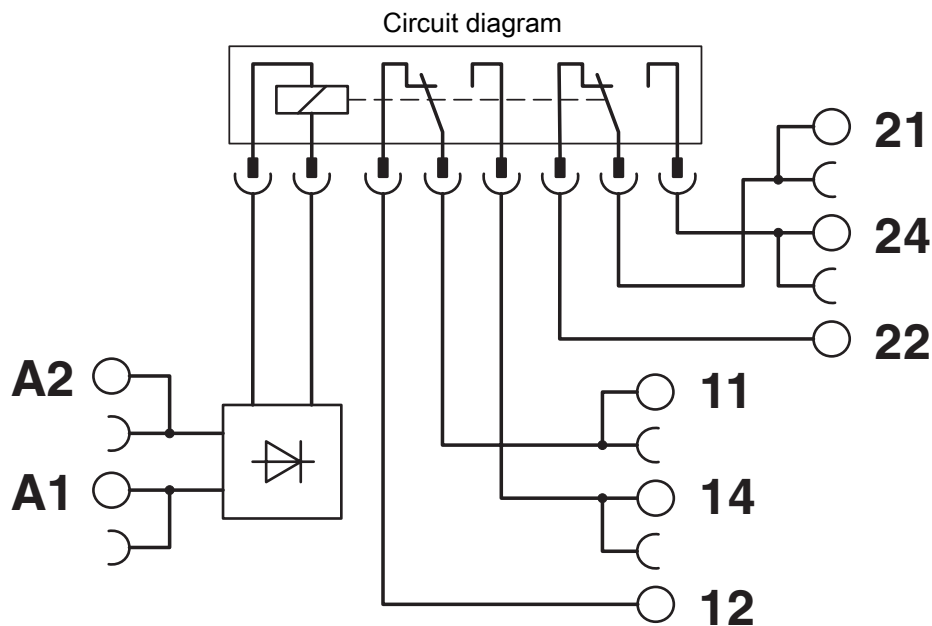
Permissible humidity for operation and storage.

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

Area A: Ice buildup at ambient temperatures  $\leq 0^{\circ}\text{C}$  must be prevented

Area B: Condensation at ambient temperatures  $> 0^{\circ}\text{C}$  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  $\leq 25^{\circ}\text{C}$ .



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2900345>



**EAC**

Approval ID: RU\*C-DE.\*08.B.00010



**cULus Listed**

Approval ID: E140324



**cUL Recognized**

Approval ID: E238705



**UL Recognized**

Approval ID: E238705



**UL Listed**

Approval ID: FILE E 172140



**cUL Listed**

Approval ID: FILE E 172140



**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                                | 51af4727-bf83-4f82-b09c-b61dc7728466 |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 1.856 kg CO2e |
|---------|---------------|

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