

## Relay Module - PLC-RSC-125DC/21AU/MS - 2909658

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PLC-INTERFACE, consisting of PLC-BSC.../21 basic terminal block with screw connection and plug-in miniature relay with multi-layer gold contact and manual operation, 1 changeover contact, 125 V DC input voltage

The figure shows the 24 V DC version

**RoHS**

### Key Commercial Data

|                      |                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------|
| Packing unit         | 1                                                                                                       |
| GTIN                 | <br>4 055626 377933 |
| GTIN                 | 4055626377933                                                                                           |
| Custom tariff number | 85364900                                                                                                |

### Technical data

#### Note

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

#### Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Ambient temperature (operation)         | -40 °C ... 55 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

#### Coil side

|                                |                                                       |
|--------------------------------|-------------------------------------------------------|
| Nominal input voltage $U_N$    | 125 V DC                                              |
| Typical input current at $U_N$ | 3 mA                                                  |
| Typical response time          | 5 ms                                                  |
| Typical release time           | 8 ms                                                  |
| Protective circuit             | Reverse polarity protection Polarity protection diode |

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## Technical data

### Coil side

|                                         |                                   |
|-----------------------------------------|-----------------------------------|
|                                         | Free-wheeling diode Damping diode |
| Operating voltage display               | Yellow LED                        |
| Power dissipation for nominal condition | 0.22 W                            |

### Contact side

|                                       |                         |
|---------------------------------------|-------------------------|
| Contact type                          | 1 PDT                   |
| Type of switch contact                | Single contact          |
| Contact material                      | AgSnO, hard gold-plated |
| Maximum switching voltage             | 30 V AC                 |
|                                       | 36 V DC                 |
| Minimum switching voltage             | 100 mV (at 10 mA)       |
| Min. switching current                | 1 mA (at 24 V)          |
| Maximum inrush current                | 50 mA                   |
| Limiting continuous current           | 50 mA                   |
| Interrupting rating (ohmic load) max. | 1.2 W (at 24 V DC)      |

### Contact side (with destroyed gold layer)

|                                                        |                                                                  |
|--------------------------------------------------------|------------------------------------------------------------------|
| Note                                                   | the following values are applicable if a gold layer is destroyed |
| Maximum switching voltage                              | 250 V AC/DC                                                      |
| Minimum switching voltage                              | 5 V (at 100 mA)                                                  |
| Limiting continuous current                            | 6 A                                                              |
| Min. switching current                                 | 10 mA (at 12 V)                                                  |
| 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 capacity in acc. with DIN VDE 0660/IEC 60947 | 2 A (at 24 V, DC13)                                              |
|                                                        | 0.2 A (at 110 V, DC13)                                           |
|                                                        | 0.1 A (at 220 V, DC13)                                           |
|                                                        | 3 A (at 24 V, AC15)                                              |
|                                                        | 3 A (at 120 V, AC15)                                             |
|                                                        | 3 A (at 230 V, AC15)                                             |

### Connection data input side

|                   |                  |
|-------------------|------------------|
| Connection name   | Coil side        |
| Connection method | Screw connection |
| Stripping length  | 8 mm             |

# Relay Module - PLC-RSC-125DC/21AU/MS - 2909658

## Technical data

### Connection data input side

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Screw thread                     | M3                                           |
| Conductor cross section solid    | 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> |
| Conductor cross section AWG      | 26 ... 14                                    |

### Connection data output side

|                                  |                                              |
|----------------------------------|----------------------------------------------|
| Connection name                  | Contact side                                 |
| Connection method                | Screw connection                             |
| Stripping length                 | 8 mm                                         |
| Screw thread                     | M3                                           |
| Conductor cross section solid    | 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> |
| Conductor cross section AWG      | 26 ... 14                                    |

## General

|                                          |                            |
|------------------------------------------|----------------------------|
| Test voltage relay winding/relay contact | 4 kV AC (50 Hz, 1 min.)    |
| Operating mode                           | 100% operating factor      |
| Degree of protection                     | RT II (flux-proof) (Relay) |
|                                          | IP20 (Relay socket)        |
| Mechanical service life                  | 2 x 10 <sup>7</sup> cycles |
| Mounting position                        | any                        |
| Assembly instructions                    | In rows with zero spacing  |

## Standards and Regulations

|                                        |                       |
|----------------------------------------|-----------------------|
| Designation                            | Standards/regulations |
| Standards/regulations                  | IEC 60664             |
|                                        | EN 50178              |
| Degree of pollution                    | 3                     |
| Overvoltage category                   | III                   |
| Flammability rating according to UL 94 | V0                    |
| Conformance                            | CE-compliant          |

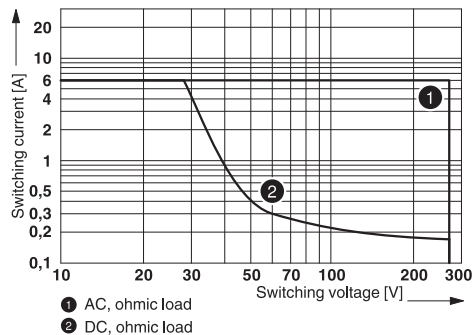
## Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| China RoHS | Environmentally Friendly Use Period = 50                                                            |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

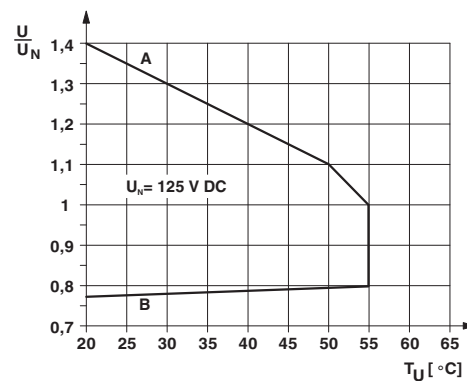
## Relay Module - PLC-RSC-125DC/21AU/MS - 2909658

Diagram



Interrupting rating

Diagram



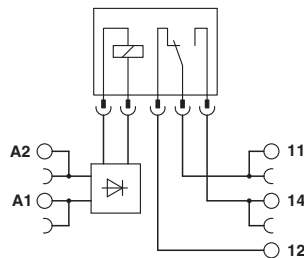
Curve A

Maximum permissible continuous voltage  $U_{\max}$  with limiting continuous current on the contact side (see relevant technical data)

Curve B

Minimum permissible operate voltage  $U_{\text{op}}$  after pre-excitation (see relevant technical data)

Circuit diagram



### Articles in set

Single relay - REL-MR- 60DC/21AU/MS - 2909647



Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, manual operation, 60 V DC input voltage

## Relay Module - PLC-RSC-125DC/21AU/MS - 2909658

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 5.0 | 27371601 |
| eCl@ss 5.1 | 27371601 |
| eCl@ss 6.0 | 27371601 |
| eCl@ss 7.0 | 27371601 |
| eCl@ss 8.0 | 27371601 |
| eCl@ss 9.0 | 27371601 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC001437 |
| ETIM 3.0 | EC001437 |
| ETIM 4.0 | EC001437 |
| ETIM 5.0 | EC001437 |
| ETIM 6.0 | EC001437 |

#### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 13.2 | 39122334 |
|-------------|----------|

### Accessories

#### Accessories

##### Bridge

Continuous plug-in bridge - FBST 500-PLC RD - 2966786



Continuous plug-in bridge, length: 500 mm, color: red

Continuous plug-in bridge - FBST 500-PLC BU - 2966692



Continuous plug-in bridge, length: 500 mm, color: blue

## Relay Module - PLC-RSC-125DC/21AU/MS - 2909658

### Accessories

Continuous plug-in bridge - FBST 500-PLC GY - 2966838



Continuous plug-in bridge, length: 500 mm, color: gray

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Single plug-in bridge - FBST 6-PLC RD - 2966236



Single plug-in bridge, length: 6 mm, number of positions: 2, color: red

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Single plug-in bridge - FBST 6-PLC BU - 2966812



Single plug-in bridge, length: 6 mm, number of positions: 2, color: blue

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Single plug-in bridge - FBST 6-PLC GY - 2966825



Single plug-in bridge, length: 6 mm, number of positions: 2, color: gray

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Single plug-in bridge - FBST 8-PLC GY - 2967688



Single plug-in bridge, length: 8 mm, number of positions: 2, color: gray

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Controller board

## Relay Module - PLC-RSC-125DC/21AU/MS - 2909658

### Accessories

#### System connection - PLC-V8/FLK14/OUT - 2295554



V8 adapter for 8 x PLC-INTERFACE (6.2 mm); Controller: PLC system cabling of output cards; connection 1: Plug connection; connection 2: 1x IDC/FLK pin strip (14-position); number of channels: 8; control logic: positive switching

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#### System connection - PLC-V8/FLK14/OUT/M - 2304102



V8 adapter for 8 x PLC-INTERFACE (6.2 mm); Controller: PLC system cabling of output cards; connection 1: Plug connection; connection 2: 1x IDC/FLK pin strip (14-position); number of channels: 8; control logic: negative switching

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#### System connection - PLC-V8/D15S/OUT - 2296058



V8 adapter for 8 x PLC-INTERFACE (6.2 mm); Controller: PLC system cabling of output cards; connection 1: Plug connection; connection 2: 1x D-SUB pin strip (15-position); number of channels: 8; control logic: positive switching

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#### System connection - PLC-V8/D15B/OUT - 2296061



V8 adapter for 8 x PLC-INTERFACE (6.2 mm); Controller: PLC system cabling of output cards; connection 1: Plug connection; connection 2: 1x D-SUB socket strip (15-position); number of channels: 8; control logic: positive switching

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### DIN rail

#### DIN rail, unperforated - NS 35/ 7,5 V2A UNPERF 2000MM - 0801377

DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

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#### DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733

DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

## Relay Module - PLC-RSC-125DC/21AU/MS - 2909658

### Accessories

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DIN rail, unperforated - NS 35/ 7,5 CU UNPERF 2000MM - 0801762



DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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DIN rail, unperforated - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

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DIN rail, unperforated - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m

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DIN rail, unperforated - NS 35/15-2,3 UNPERF 2000MM - 1201798



DIN rail, unperforated, Width: 35 mm, Height: 15 mm, Length: 2000 mm, Color: silver

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DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm

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## Relay Module - PLC-RSC-125DC/21AU/MS - 2909658

### Accessories

DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm

DIN rail, unperforated - NS 35/ 7,5 UNPERF 2000MM - 0801681

DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

### Labeled terminal marker

Zack marker strip - ZB 6,LGS:FORTL.ZAHLEN - 1051016



Zack marker strip, Strip, white, labeled, can be labeled with: CMS-P1-PLOTTER, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 491 - 500, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

### Partition plate

Separating plate - PLC-ATP BK - 2966841



Separating plate, 2 mm thick, required at the start and end of a PLC terminal strip. Furthermore, it is used for: visual separation of groups, safe isolation of different voltages of neighboring PLC relays in acc. with DIN VDE 0106-101, isolation

### Power module

Power terminal block - PLC-ESK GY - 2966508



Power terminal block, for the input of up to four potentials, for mounting on NS 35/7.5

## Relay Module - PLC-RSC-125DC/21AU/MS - 2909658

### Accessories

#### Screwdriver tools

Screwdriver - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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#### Terminal marking

Zack marker strip - ZB 6:UNBEDRUCKT - 1051003



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

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Zack marker strip - ZB 6/WH-100:UNBEDRUCKT - 5060935



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, Mounting type: Snap into tall marker groove, for terminal block width: 6.2 mm, Lettering field: 6.15 x 10.5 mm

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#### Spare parts

Single relay - REL-MR- 60DC/21AU/MS - 2909647



Plug-in miniature power relay, with multi-layer gold contact, 1 changeover contact, manual operation, 60 V DC input voltage