

## Relay Module - PLC-RSC- 60DC/21-21 - 2967293

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PLC relay, consisting of base terminal block PLC-BSC.../21 with screw connection and pluggable miniature relay with power contact, for assembly on DIN rail NS 35/7.5, 2 PDT, input voltage 60 V DC


The illustration shows the version PLC-RSC- 24DC/21-21

### Product Features

- Slim design
- Efficient connection to system cabling using V8 adapter
- RT III sealed relay
- Safe isolation according to DIN EN 50178 between coil and contact
- Integrated input circuit and interference suppression circuit
- Functional plug-in bridges



### Key Commercial Data

|                                      |   |
|--------------------------------------|---|
| Packing unit                         | 1 pc  |
| GTIN                                 | <br>4 017918 164072 |
| Weight per Piece (excluding packing) | 68.82 g   |
| Custom tariff number                 | 85364900  |
| Country of origin                    | Germany   |

### Technical data

#### Note

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

### Dimensions

# Relay Module - PLC-RSC- 60DC/21-21 - 2967293

## Technical data

### Dimensions

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

### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -40 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

### Coil side

|   |   |
|---|---|
| Nominal input voltage $U_N$             | 60 V DC   |
| Typical input current at $U_N$          | 10 mA   |
| Typical response time                   | 8 ms  |
| Typical release time                    | 10 ms   |
| Protective circuit                      | Reverse polarity protection Polarity protection diode |
|   | Free-wheeling diode Damping diode                     |
| Operating voltage display               | yes   |
| Power dissipation for nominal condition | 0.6 W   |

### Contact side

|  |   |
|--|---|
| Contact type   | 2 PDT   |
| 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 (at 10 mA)  |
| Min. switching current                                 | 10 mA (At 5 V)  |
| Maximum inrush current                                 | 15 A (300 ms)   |
| Limiting continuous current                            | 6 A   |
| 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 in acc. with DIN VDE 0660/IEC 60947 | 2 A (at 24 V, DC13)   |
|  | 0.2 A (at 250 V, DC13)  |
|  | 3 A (at 24 V, AC15)   |
|  | 3 A (at 120 V, AC15)  |
|  | 3 A (at 250 V, AC15)  |

# Relay Module - PLC-RSC- 60DC/21-21 - 2967293

## Technical data

### Connection data input side

|                                  |  |
|----------------------------------|--|
| Connection name                  | Coil 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                                    |

### 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.)                            |
| Test voltage PDT/PDT                     | 2.5 kV AC (50 Hz, 1 min.)                          |
| Operating mode                           | 100% operating factor                              |
| Degree of protection                     | RT III (Relay)                                     |
| Mechanical service life                  | 3 x 10 <sup>7</sup> cycles                         |
| Flammability rating according to UL 94   | V0   |
| Designation                              | Standards/regulations                              |
| Standards/regulations                    | IEC 60664  |
|  | EN 50178   |
|  | IEC 62103  |
| Rated surge voltage/insulation           | 6 kV (safe isolation: control side / contact side) |
| Degree of pollution                      | 2  |
| Overvoltage category                     | III  |
| Mounting position                        | any  |
| Assembly instructions                    | In rows with zero spacing                          |

## Standards and Regulations

|                                  |                       |
|----------------------------------|-----------------------|
| Connection in acc. with standard | CUL                   |
| Designation                      | Standards/regulations |
| Standards/regulations            | IEC 60664             |
|                                  | EN 50178              |

# Relay Module - PLC-RSC- 60DC/21-21 - 2967293

## Technical data

### Standards and Regulations

|  |  |
|--|--|
|  | IEC 62103  |
| Rated surge voltage/insulation         | 6 kV (safe isolation: control side / contact side) |
| Degree of pollution                    | 2  |
| Overvoltage category                   | III  |
| Flammability rating according to UL 94 | V0   |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27371102 |
| eCl@ss 4.1 | 27371102 |
| eCl@ss 5.0 | 27371001 |
| eCl@ss 5.1 | 27371001 |
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCl@ss 8.0 | 27371601 |
| eCl@ss 9.0 | 27371601 |

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000196 |
| ETIM 3.0 | EC000196 |
| ETIM 4.0 | EC000196 |
| ETIM 5.0 | EC001437 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211916 |
| UNSPSC 7.0901 | 39121515 |
| UNSPSC 11     | 39121515 |
| UNSPSC 12.01  | 39121515 |
| UNSPSC 13.2   | 39121515 |

## Approvals

### Approvals

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### Approvals

UL Recognized / UL Listed / cUL Recognized / cUL Listed / GL / EAC / RC FRT / cULus Recognized / cULus Listed

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# Relay Module - PLC-RSC- 60DC/21-21 - 2967293

## Approvals


Ex Approvals

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Approvals submitted


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### Approval details

UL Recognized 

UL Listed 

cUL Recognized 


cUL Listed 

GL

EAC

RC FRT

cULus Recognized 

cULus Listed 

## Relay Module - PLC-RSC- 60DC/21-21 - 2967293

### Accessories

#### Accessories

#### Bridge

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



Continuous plug-in bridge, Length: 500 mm, Color: red

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



Continuous plug-in bridge, Length: 500 mm, Color: blue

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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

## Relay Module - PLC-RSC- 60DC/21-21 - 2967293

### Accessories

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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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Single plug-in bridge - FBST 14-PLC BK - 2967691



Single plug-in bridge, Length: 14 mm, Number of positions: 2, Color: black

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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

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## Relay Module - PLC-RSC- 60DC/21-21 - 2967293

### Accessories

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, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m

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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- 60DC/21-21 - 2967293

### 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 - ZB10,LGS:FORTL.ZAHLEN - 1053014



Zack marker strip, Strip, white, labeled, can be labeled with: Plotter, Printed horizontally: Consecutive numbers 1 - 10, 11 - 20, etc. up to 991 - 1000, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 10.15 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

## Relay Module - PLC-RSC- 60DC/21-21 - 2967293

### Accessories

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

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### 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 - ZB10/WH-100:UNBEDRUCKT - 5060883



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 10.15 x 10.5 mm

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Zack marker strip - ZB 10:UNBEDRUCKT - 1053001



Zack marker strip, Strip, white, unlabeled, can be labeled with: Plotter, Mounting type: Snap into tall marker groove, for terminal block width: 10.2 mm, Lettering field: 10.5 x 10.15 mm

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### Spare parts

# Relay Module - PLC-RSC- 60DC/21-21 - 2967293

## Accessories

Relay socket - PLC-BSC- 60DC/21-21 - 2967316



14 mm PLC basic terminal block with screw connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, 2 PDTs, input voltage 60 V DC

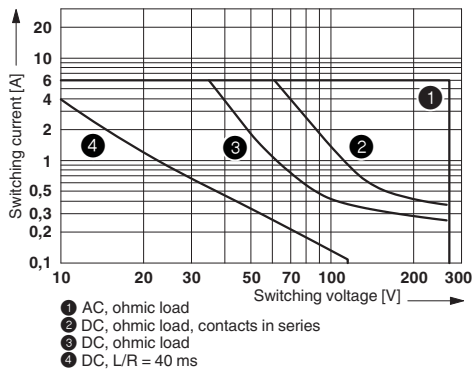
Single relay - REL-MR- 60DC/21-21 - 2961273



Plug-in miniature power relay, with power contact, 2 PDTs, input voltage 60 V DC

## Drawings

Diagram



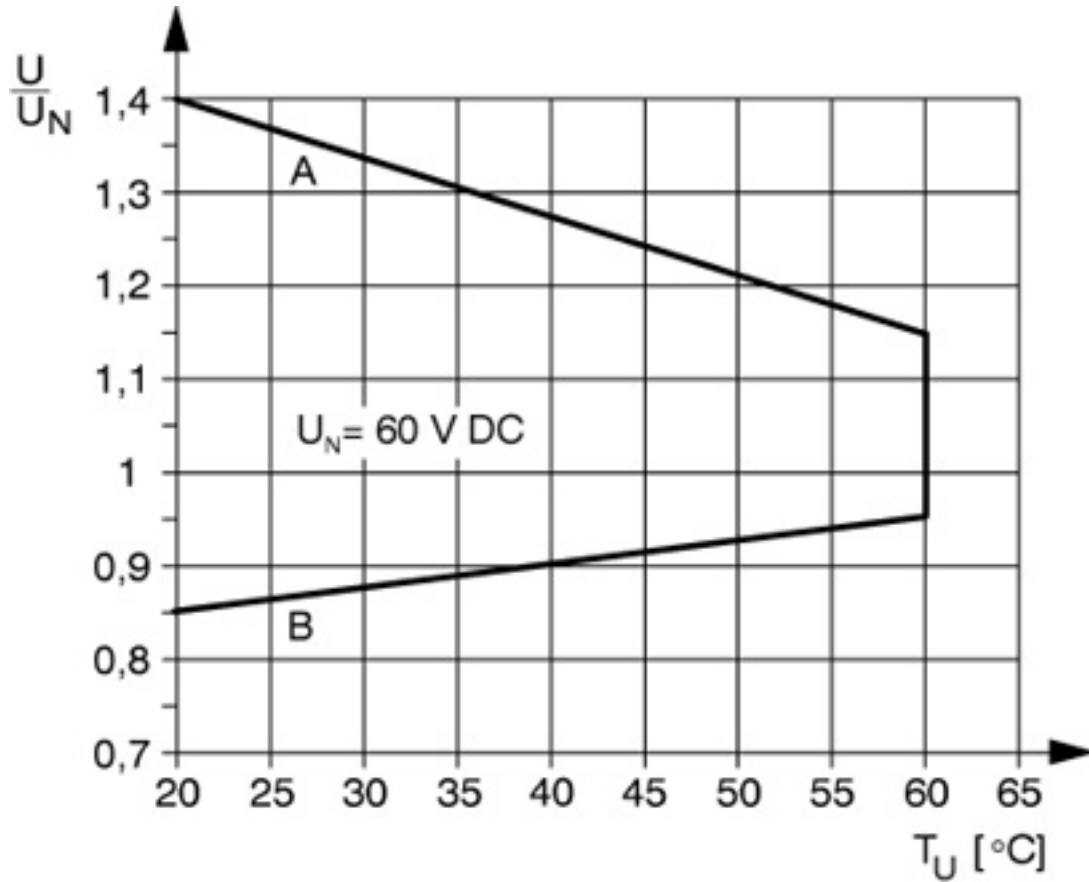
Circuit diagram



Interrupting rating

## Relay Module - PLC-RSC- 60DC/21-21 - 2967293

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  $U_{op}$  after pre-excitation (see relevant technical data)

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