

# PLC-RSC-120UC/21-21

Order No.: 2967086

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



<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2967086>

PLC relay, consisting of base terminal block PLC-BSC.../21 with screw connection and pluggable miniature relay with power contact, for assembly on mounting rail NS 35/7.5, 2 PDT, input voltage 120 V AC / 110 V DC

| Commercial data          |                   |
|--------------------------|-------------------|
| EAN                      | 4017918156398     |
| Pack                     | 10 Pcs.           |
| Customs tariff           | 85364900          |
| Weight/Piece             | 0.06949 KG        |
| Catalog page information | Page 67 (IF-2007) |

#### Product notes

WEEE/RoHS-compliant since:  
12/20/2006



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| Technical data              |                     |
|-----------------------------|---------------------|
| <b>Coil side</b>            |                     |
| Nominal input voltage $U_N$ | 120 V AC (110 V DC) |
|                             | 110 V DC            |

|                                |                              |
|--------------------------------|------------------------------|
| Nominal input current at $U_N$ | 4.5 mA (at $U_N = 120$ V AC) |
|                                | 4.2 mA (at $U_N = 110$ V DC) |
| Typical response time          | 7 ms                         |
| Typical release time           | 10 ms                        |
| Operating voltage display      | Yellow LED                   |
| Name of protection             | Bridge rectifier             |
| Protective circuit/component   | Bridge rectifier             |

#### Contact side

|                                       |   |
|---------------------------------------|---|
| Contact type                          | Single contact, 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   |
| Maximum inrush current                | 15 A (300 ms)   |
| Min. switching current                | 10 mA   |
| Limiting continuous current           | 6 A   |
| Interrupting rating (ohmic load) max. | 140 W (for 24 V DC)   |
|                                       | 85 W (for 48 V DC)  |
|                                       | 60 W (for 60 V DC)  |
|                                       | 44 W (for 110 V DC)   |
|                                       | 60 W (for 220 V DC)   |
|                                       | 1500 VA (for 250 V AC)  |

#### General data

|   |                            |
|---|----------------------------|
| Length  | 80 mm                      |
| Height  | 94 mm                      |
| Width   | 14 mm                      |
| 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)   |
| Ambient temperature (operation)                   | -25 °C ... 60 °C           |
| Ambient temperature (storage/transport)           | -40 °C ... 85 °C           |
| Operating mode                                    | 100% operating factor      |
| Service life mechanical                           | 3 x 10 <sup>7</sup> cycles |
| Inflammability class in acc. with UL 94 (housing) | V0                         |

|                        |   |
|------------------------|---|
| Standard designation   | Standards/regulations                         |
| Standards/regulations  | IEC 60664                                     |
|                        | IEC 60664 A                                   |
|                        | DIN VDE 0110                                  |
|                        | DIN EN 50178/DIN VDE 0160 (in relevant parts) |
|                        | IEC 60255/DIN VDE 0435 (in relevant parts)    |
|                        | DIN EN 50178/VDE 0160                         |
| Pollution degree       | 3   |
| Surge voltage category | III   |
| Mounting position      | Any   |
| Assembly instructions  | In rows with zero spacing                     |

#### Connection data

|  |                      |
|--|----------------------|
| Type of connection                     | Screw connection     |
| Conductor cross section solid min.     | 0.14 mm <sup>2</sup> |
| Conductor cross section solid max.     | 2.5 mm <sup>2</sup>  |
| Conductor cross section stranded min.  | 0.14 mm <sup>2</sup> |
| Conductor cross section stranded max.  | 2.5 mm <sup>2</sup>  |
| Conductor cross section AWG/kcmil min. | 26                   |
| Conductor cross section AWG/kcmil max  | 14                   |
| Stripping length                       | 8 mm                 |
| Screw thread                           | M3                   |

#### Certificates / Approvals



Certification

CUL, CUL Listed, GL, GOST, UL, UL Listed

#### Accessories

| Item    | Designation                    | Description   |
|---------|--------------------------------|---|
| 0801762 | NS 35/ 7,5 CU UNPERF<br>2000MM | DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m |

|         |                              |  |
|---------|------------------------------|--|
| 0801733 | NS 35/ 7,5 PERF 2000MM       | DIN rail, material: Steel, perforated, height 7.5 mm, width 35 mm, length: 2 m   |
| 0801681 | NS 35/ 7,5 UNPERF 2000MM     | DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m   |
| 0801377 | NS 35/ 7,5 V2A UNPERF 2000MM | DIN rail, material: High-grade steel V2A, unperforated, height 5.5 mm, width 15 mm, length: 2 m  |
| 1201756 | NS 35/15 AL UNPERF 2000MM    | DIN rail, deep-drawn, high profile, unperforated, 1.5 mm thick, material: Aluminum, height 15 mm, width 35 mm, length 2 m  |
| 1201895 | NS 35/15 CU UNPERF 2000MM    | DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m   |
| 1201730 | NS 35/15 PERF 2000MM         | DIN rail, material: Steel, perforated, height 15 mm, width 35 mm, length: 2 m  |
| 1201714 | NS 35/15 UNPERF 2000MM       | DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m  |
| 1201798 | NS 35/15-2,3 UNPERF 2000MM   | DIN rail, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m  |
| 2966841 | PLC-ATP BK                   | 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 |

#### Bridges

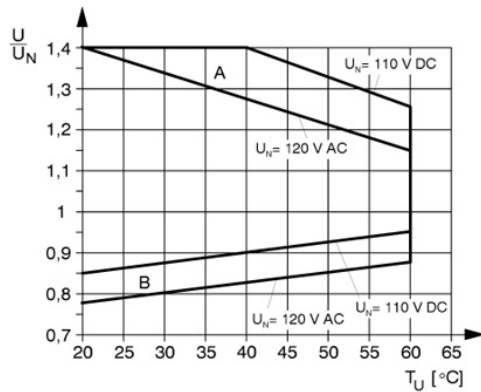
|         |                 |   |
|---------|-----------------|---|
| 2966812 | FBST 6-PLC BU   | Plug-in bridge, 2-pos., 6 mm long, insulated, for potential distribution with PLC, color of the insulation material: blue                               |
| 2966825 | FBST 6-PLC GY   | Plug-in bridge, 2-pos., 6 mm long, insulated, for potential distribution with PLC, color of the insulation material: gray                               |
| 2966236 | FBST 6-PLC RD   | Plug-in bridge, 2-pos., 6 mm long, insulated, for potential distribution with PLC, color of the insulation material: red                                |
| 2967688 | FBST 8-PLC GY   | Plug-in bridge, 2-pos., 8 mm long, insulated, for potential distribution with PLC, with separating plate, color of the insulation material: gray        |
| 2967691 | FBST 14-PLC BK  | Plug-in bridge, 2-pos., 14 mm long, insulated, to increase efficiency with PLC...IC and PLC..HC, color of the insulation material: black                |
| 2966692 | FBST 500-PLC BU | Continuous plug-in bridge, 500 mm long, insulated, can be cut to length, for potential distribution with PLC..., color of the insulating material: blue |
| 2966838 | FBST 500-PLC GY | Continuous plug-in bridge, 500 mm long, insulated, can be cut to length, for potential distribution with PLC..., color of the insulating material: gray |
| 2966786 | FBST 500-PLC RD | Continuous plug-in bridge, 500 mm long, insulated, can be cut to length, for potential distribution with PLC..., color of the insulating material: red  |

**Marking**

|         |                        |   |
|---------|------------------------|---|
| 1053001 | ZB 10:UNBEDRUCKT       | Zack strip, unprinted: 10-section, for individual labeling with M-PEN, ZB-T or CMS system, sufficient for 100 terminal blocks, for a terminal width of 10.2 mm, color: White                        |
| 1053014 | ZB10,LGS:FORTL.ZAHLEN  | Zack strip, 10-section, printed horizontally: with the numbers, 1-10, 11-20 etc. up to 991-1000, color: white   |
| 5060883 | ZB10/WH-100:UNBEDRUCKT | Zack strip, unprinted: 10-section, for individual labeling with M-PEN, ZB-T or CMS system, large batch, sufficient for labeling 1000 terminal blocks, for a terminal width of 10.2 mm, color: White |

**Drawings**

Diagram



Circuit diagram

