

# PLC-RSP-120UC/21AU

Order No.: 2966582

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



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PLC relay, consisting of base terminal block PLC-BSP.../21 with spring-cage connection and pluggable miniature relay with multi-layer contact, for assembly on DIN rail NS 35/7.5, 1 PDT, input voltage 120 V AC/110 V DC



## Commercial data

|                          |                                                                                                        |
|--------------------------|--------------------------------------------------------------------------------------------------------|
| GTIN (EAN)               | <br>4 017918 164829 |
| sales group              | G221                                                                                                   |
| Pack                     | 10 pcs.                                                                                                |
| Customs tariff           | 85364900                                                                                               |
| Catalog page information | Page 83 (IF-2011)                                                                                      |

## Product notes

WEEE/RoHS-compliant since:  
02/09/2006



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## Technical data

### Coil side

|                             |                     |
|-----------------------------|---------------------|
| Nominal input voltage $U_N$ | 120 V AC (110 V DC) |
|                             | 110 V DC            |

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| Nominal input current at $U_{IN}$ | 3.5 mA (at $U_N = 120$ V AC)      |
|                                   | 3 mA (at $U_N = 110$ V DC)        |
| Typical response time             | 6 ms                              |
| Typical release time              | 15 ms                             |
| Operating voltage display         | Yellow LED                        |
| Protective circuit                | Bridge rectifier Bridge rectifier |

#### Contact side

|                                       |                                                                         |
|---------------------------------------|-------------------------------------------------------------------------|
| Contact type                          | Single contact, 1-PDT                                                   |
| Contact material                      | AgSnO, hard gold-plated                                                 |
| Maximum switching voltage             | 30 V AC                                                                 |
|                                       | 36 V DC                                                                 |
| Minimum switching voltage             | 100 mV (at 10 mA)                                                       |
| Maximum inrush current                | 50 mA                                                                   |
| Min. switching current                | 1 mA (at 24 V)                                                          |
| Limiting continuous current           | 50 mA                                                                   |
| Interrupting rating (ohmic load) max. | 1.2 W (at 24 V DC)                                                      |
| Note                                  | <b>the following values are applicable if a gold layer is destroyed</b> |
| 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 (for 48 V DC)                                                      |
|                                       | 18 W (for 60 V DC)                                                      |
|                                       | 23 W (At 110 V DC)                                                      |
|                                       | 40 W (for 220 V DC)                                                     |
|                                       | 1500 VA (for 250 V AC)                                                  |

#### General data

|                                          |                         |
|------------------------------------------|-------------------------|
| Width                                    | 6.2 mm                  |
| Height                                   | 80 mm                   |
| Depth                                    | 94 mm                   |
| Test voltage relay winding/relay contact | 4 kV AC (50 Hz, 1 min.) |
| Ambient temperature (operation)          | -40 °C ... 55 °C        |
| Ambient temperature (storage/transport)  | -40 °C ... 85 °C        |

|                                    |                            |
|------------------------------------|----------------------------|
| Operating mode                     | 100% operating factor      |
| Mechanical service life            | 2 x 10 <sup>7</sup> cycles |
| Inflammability class acc. to UL 94 | V0                         |
| Name                               | Standards/regulations      |
| Standards/regulations              | IEC 60664                  |
|                                    | EN 50178                   |
|                                    | IEC 62103                  |
| Pollution degree                   | 3                          |
| Surge voltage category             | III                        |
| Mounting position                  | Any                        |
| Assembly instructions              | In rows with zero spacing  |

#### Connection data

|                                        |                        |
|----------------------------------------|------------------------|
| Connection method                      | Spring-cage 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                   |

#### Certificates / Approvals



Certification

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

#### Accessories

| Item            | Designation                 | Description                                                                       |
|-----------------|-----------------------------|-----------------------------------------------------------------------------------|
| <b>Assembly</b> |                             |                                                                                   |
| 0801762         | NS 35/ 7,5 CU UNPERF 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, galvanized and passivated with a thick layer, 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, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver                                                                                                                                                                                 |
| 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   | Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: blue |
| 2966825 | FBST 6-PLC GY   | Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: gray |
| 2966236 | FBST 6-PLC RD   | Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: red  |
| 2967688 | FBST 8-PLC GY   | Single plug-in bridge, Length: 8 mm, Number of positions: 2, Color: gray |
| 2966692 | FBST 500-PLC BU | Continuous plug-in bridge, Length: 500 mm, Color: blue                   |
| 2966838 | FBST 500-PLC GY | Continuous plug-in bridge, Length: 500 mm, Color: gray                   |
| 2966786 | FBST 500-PLC RD | Continuous plug-in bridge, Length: 500 mm, Color: red                    |

#### General

|         |                  |                                                                                                                                                             |
|---------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2967167 | PLC-BSP-120UC/21 | 6.2 mm PLC basic terminal blocks with spring-cage connection method, input voltage 120 V AC/DC(without relay or optocoupler)                                |
| 2966508 | PLC-ESK GY       | Power terminal block, for the input of up to four potentials, for mounting on NS 35/7.5                                                                     |
| 2296087 | PLC-V8/D15B/IN   | V8-INPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./ see "Additional Products"). 15-pin D-SUB female connector, control logic: Positive switching |

|         |                   |                                                                                                                                                                                               |
|---------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2296074 | PLC-V8/D15S/IN    | V8-INPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./see "Additional Products"). 15-pin D-SUB male connector, control logic: Positive switching                                      |
| 2296553 | PLC-V8/FLK14/IN   | V8L-INPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./see "Supplementary Products"). 14-pos. flat-ribbon cable connection for the PLC system cabling, control logic: Plus switching  |
| 2304115 | PLC-V8/FLK14/IN/M | V8L-INPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./see "Supplementary Products"). 14-pos. flat-ribbon cable connection for the PLC system cabling, control logic: Minus switching |
| 2961134 | REL-MR- 60DC/21AU | Pluggable miniature relays, with multi-layer contact, 1 PDT, input voltage 60 V DC                                                                                                            |

#### Marking

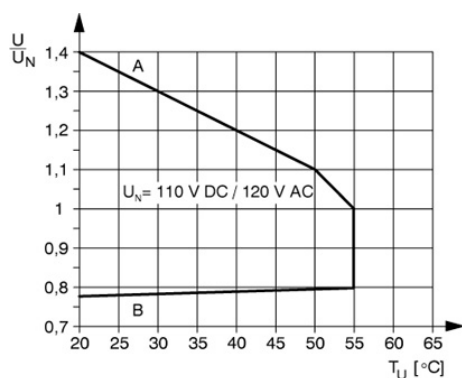
|         |                        |                                                                                                                                                                                        |
|---------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1051016 | ZB 6,LGS:FORTL.ZAHLEN  | Zack marker strip, 10-section, printed horizontally: with the numbers 1 - 10, 11 - 20 and so on up to 491 - 500, color: white                                                          |
| 5060935 | ZB 6/WH-100:UNBEDRUCKT | Zack strip, unprinted: For individual labeling with M-PEN, ZB-T or CMS system, large batch, sufficient for labeling 1000 terminal blocks, for a terminal width of 6.2 mm, color: White |
| 1051003 | ZB 6:UNBEDRUCKT        | Zack strip, unprinted, strips with 10 labels for individual labeling with M-PEN or CMS system, for terminal block width: 6.2 mm, color: white                                          |

#### Tools

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

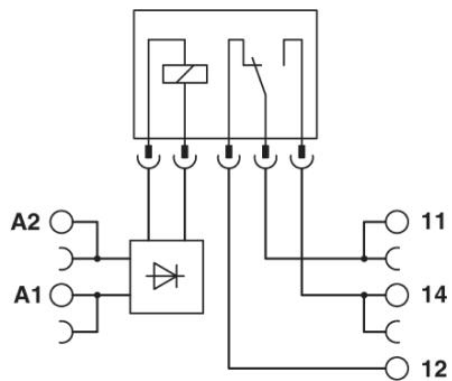
#### Diagrams/Drawings

##### Diagram



Circuit diagram

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