

# PLC-RSC- 24DC/21-21

Order No.: 2967060



<http://eshop.phoenixcontact.net/phoenix/treeViewClick.do?UID=2967060>

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 24 V DC



## Commercial data

|                                          |                                                                                                        |
|------------------------------------------|--------------------------------------------------------------------------------------------------------|
| EAN                                      | <br>4 017918 156374 |
| Pack                                     | 10 pcs.                                                                                                |
| Customs tariff                           | 85364190                                                                                               |
| Gross weight in pieces                   | 0.07649 KG                                                                                             |
| Net weight per piece (exclusive packing) | 0.0679 KG                                                                                              |
| Catalog page information                 | Page 83 (IF-2011)                                                                                      |

## Product notes

WEEE/RoHS-compliant since:  
11/15/2005



<http://www.download.phoenixcontact.com>  
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## Technical data

### Coil side

|                                   |         |
|-----------------------------------|---------|
| Nominal input voltage $U_N$       | 24 V DC |
| Nominal input current at $U_{IN}$ | 18 mA   |
| Typical response time             | 8 ms    |

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| Typical release time      | 10 ms                                                          |
| Operating voltage display | Yes                                                            |
| Protective circuit        | Protection against polarity reversal Polarity protection diode |
|                           | Free-wheeling diode Damping diode                              |

#### 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 (at 10 mA)                                                                                                                                                                                                                          |
| Maximum inrush current                | 15 A (300 ms)                                                                                                                                                                                                                                 |
| Min. switching current                | 10 mA (At 5 V)                                                                                                                                                                                                                                |
| Limiting continuous current           | 6 A                                                                                                                                                                                                                                           |
| Interrupting rating (ohmic load) max. | 140 W (at 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

|                                          |                            |
|------------------------------------------|----------------------------|
| Width                                    | 14 mm                      |
| Height                                   | 80 mm                      |
| Depth                                    | 94 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)          | -40 °C ... 60 °C           |
| Ambient temperature (storage/transport)  | -40 °C ... 85 °C           |
| Operating mode                           | 100% operating factor      |
| Mechanical service life                  | 3 x 10 <sup>7</sup> cycles |
| Inflammability class according to UL 94  | V0                         |
| Name                                     | Standards/regulations      |

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| Standards/regulations            | IEC 60664                                          |
|                                  | EN 50178                                           |
|                                  | IEC 62103                                          |
| Rated surge voltage / insulation | 6 kV (safe isolation: control side / contact side) |
| Pollution degree                 | 2                                                  |
| Surge voltage category           | III                                                |
| Mounting position                | Any                                                |
| Assembly instructions            | In rows with zero spacing                          |

#### Connection data

|                                        |                      |
|----------------------------------------|----------------------|
| Connection method                      | 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

cULus Listed, cULus Recognized, GOST, GL

Certifications applied for:

Certification Ex:

#### 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: 2000 mm                                                                                                                        |
| 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 2000 mm                                                                                                                          |
| 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 galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm                                                                                                                         |
| 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  |
| 2966236 | FBST 6-PLC RD   | Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: red  |
| 2966236 | FBST 6-PLC RD   | Single plug-in bridge, Length: 6 mm, Number of positions: 2, Color: red  |
| 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                    |

**Marking**

|         |                       |                                                                                                                                                                                                                                          |
|---------|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1053001 | ZB 10:UNBEDRUCKT      | 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                                               |
| 1053014 | ZB10,LGS:FORTL.ZAHLEN | 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 |

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

#### Plug/Adapter

|         |                     |                                                                                                                                                                                                |
|---------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2299660 | PLC-V8L/FLK14/OUT   | V8L-OUTPUT adapter for eight 14 mm PLC Interfaces (2 PDTs, etc./see "Supplementary Products"). 14-pos. flat-ribbon cable connection for the PLC system cabling, control logic: Plus switching  |
| 2304306 | PLC-V8L/FLK14/OUT/M | V8L-OUTPUT adapter for eight 14 mm PLC interfaces (2 PDTs, etc./see "Supplementary Products"). 14-pos. flat-ribbon cable connection for the PLC system cabling, control logic: Minus switching |

#### Power terminal block

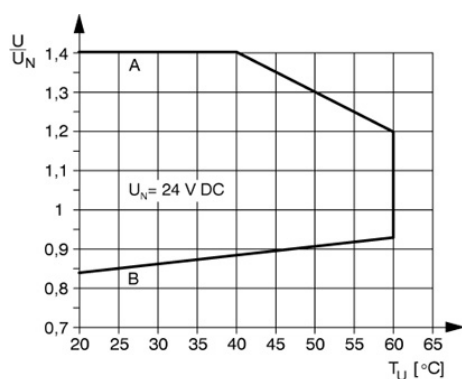
|         |            |                                                                                         |
|---------|------------|-----------------------------------------------------------------------------------------|
| 2966508 | PLC-ESK GY | Power terminal block, for the input of up to four potentials, for mounting on NS 35/7.5 |
|---------|------------|-----------------------------------------------------------------------------------------|

#### 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

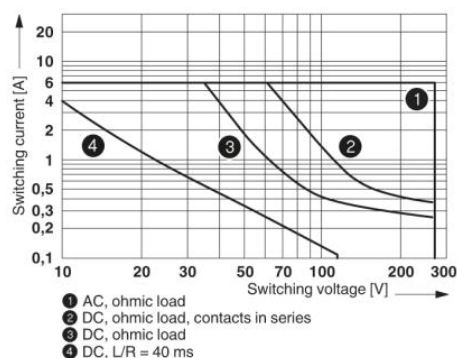


##### Curve A

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

##### Curve B

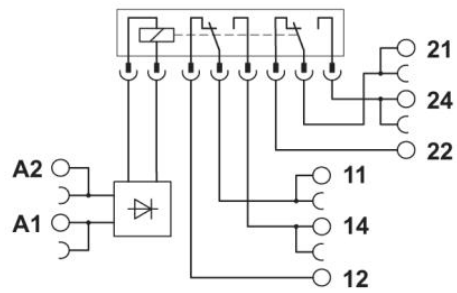
Minimum permissible operate voltage  $U_{\text{op}}$  after pre-excitation (see relevant technical data)



##### Interrupting rating

Circuit diagram

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