


PLC-RSP- 24DC/21-21AU

Order No.: 2912578



PLC Relay, consisting of basic terminal block PLC-BSP.../21-21AU with spring-cage connection and pluggable miniature relay with multi-layer contact, for assembly on DIN rail NS 35/7.5, 2 PDT, input voltage 24 V DC



| Commercial data | |
|--------------------------|---|
| EAN | 4  046356 050982 |
| Pack | 10 Pcs. |
| Customs tariff | 85364190 |
| Product key | 106231 |
| Catalog page information | Page 83 (IF-2011) |

Product notes

WEEE/RoHS-compliant since:
03/03/2006



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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 |

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

Contact side

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|---------------------------------------|---|
| Contact type | Single contact, 2-PDT |
| Contact material | AgNi, 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 | the following values are applicable if a gold layer is destroyed |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 5 V AC/DC |
| Limiting continuous current | 6 A |
| Maximum inrush current | 15 A (300 ms) |
| Min. switching current | 10 mA |
| 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

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|---|----------------------------|
| Width | 14 mm |
| Height | 80 mm |
| Depth | 94 mm |
| 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 ⁷ cycles |

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| Inflammability class according to UL 94 | V0 |
| Name | Standards/regulations |
| Standards/regulations | IEC 60664 |
| | EN 50178 |
| | IEC 62103 |
| Rated surge voltage / insulation | 6 kV / Basic isolation |
| Pollution degree | 2 |
| Surge voltage category | III |
| Mounting position | Any |
| Assembly instructions | In rows with zero spacing |

Connection data

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|--|------------------------|
| Connection method | Spring-cage connection |
| Conductor cross section solid min. | 0.14 mm ² |
| Conductor cross section solid max. | 2.5 mm ² |
| Conductor cross section stranded min. | 0.14 mm ² |
| Conductor cross section stranded max. | 2.5 mm ² |
| 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, UL, UL Listed

Accessories

| Item | Designation | Description |
|------|-------------|-------------|
|------|-------------|-------------|

Assembly

| | | |
|---------|------------------------------|---|
| 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

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|---------|-----------------|--|
| 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 |
| 2967691 | FBST 14-PLC BK | Single plug-in bridge, Length: 14 mm, Number of positions: 2, Color: black |
| 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

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

Marking

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|---------|------------------------|--|
| 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 |

Relay

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|---------|----------------------|--|
| 2961215 | REL-MR- 24DC/21-21AU | Pluggable miniature relays, with multi-layer contact, 2 PDT, input voltage 24 V DC |
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Relay base

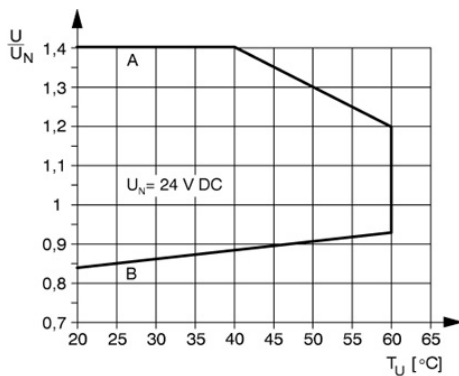
| | | |
|---------|---------------------|---|
| 2912439 | PLC-BSP- 24DC/21-21 | 14 mm PLC basic terminal blocks with spring-cage connection, 24 V DC input voltage (without relay or optocoupler) |
|---------|---------------------|---|

Tools

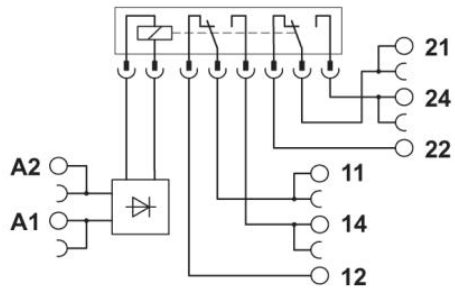
| | | |
|---------|---------------|---|
| 1204517 | SZF 1-0,6X3,5 | Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip |
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Drawings

Diagram



Circuit diagram



Connection data incl. use groups





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