

# PLC-OPIT- 24DC/ 24DC/2

Order No.: 2900364




<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2900364>

PLC interface, consisting of PLC-BPIT basic terminal block with Push-In connection and pluggable miniature optocoupler, for assembly on DIN rail NS 35/7.5, input: 24 V DC, output: 3-33 V DC/3 A



## Commercial data

|                          |  |
|--------------------------|--|
| GTIN (EAN)               | <br>4 046356 508780 |
| sales group              | G247   |
| Pack                     | 10 pcs.  |
| Customs tariff           | 85364190   |
| Catalog page information | Page 85 (IF-2011)  |

## Product notes

WEEE/RoHS-compliant since:  
05/05/2009



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## Technical data

### Input data

|  |             |
|--|-------------|
| Nominal input voltage $U_N$                          | 24 V DC     |
| Input voltage range in reference to $U_N$            | 0.8 ... 1.2 |
| Switching threshold "0" signal in reference to $U_N$ | $\leq 0.4$  |

|  |                                      |
|--|--------------------------------------|
| Switching threshold "1" signal in reference to $U_N$ | $\geq 0.8$                           |
| Typical input current at $U_N$                       | 8.5 mA                               |
| Typical response time                                | 20 $\mu$ s (at $U_N$ )               |
| Typical turn-off time                                | 300 $\mu$ s (at $U_N$ )              |
| Operating voltage display                            | Yellow LED                           |
| Type of protection                                   | Protection against polarity reversal |
|  | Free-wheeling diode                  |
| Protective circuit/component                         | Polarity protection diode            |
|  | Damping diode                        |
| Transmission frequency                               | 300 Hz                               |

#### Output data

|  |                                      |
|--|--------------------------------------|
| Output nominal voltage range                     | 3 V DC ... 33 V DC                   |
| Limiting continuous current                      | 3 A (see derating curve)             |
| Maximum inrush current                           | 15 A (10 ms)                         |
| Voltage drop at max. limiting continuous current | $\leq 200$ mV                        |
| Output circuit                                   | 2-wire, floating                     |
| Type of protection                               | Protection against polarity reversal |
|  | Surge protection                     |
| Protective circuit/component                     | Polarity protection diode            |

#### Connection data

|  |                      |
|--|----------------------|
| Connection method                      | Push-In connection   |
| Stripping length                       | 8 mm                 |
| 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                   |

#### General data

|   |                  |
|---|------------------|
| Width                                   | 6.2 mm           |
| Height                                  | 80 mm            |
| Depth                                   | 94 mm            |
| Ambient temperature (operation)         | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |

|                                    |                           |
|------------------------------------|---------------------------|
| Mounting position                  | Any                       |
| Assembly instructions              | In rows with zero spacing |
| Operating mode                     | 100% operating factor     |
| Inflammability class acc. to UL 94 | V0                        |
| Pollution degree                   | 2                         |
| Surge voltage category             | III                       |

### Certificates / Approvals



Certification

CUL, CUL Listed, 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: 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  |
| 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

|         |                    |   |
|---------|--------------------|---|
| 2966595 | OPT-24DC/ 24DC/ 2  | Pluggable miniature optocouplers, power optocouplers, input: 24 V DC, output: 3-33 V DC/3 A   |
| 2900445 | PLC-BPIT- 24DC/21  | 6.2 mm PLC basic terminal blocks with Push-In connection method, input voltage of 24 V 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   |
| 2296061 | PLC-V8/D15B/OUT    | V8-OUTPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./see "Additional Products"). 15-pin D-SUB female connector, control logic: Positive switching                                   |
| 2296058 | PLC-V8/D15S/OUT    | V8-OUTPUT adapter for eight 6.2 mm PLC interfaces (1 PDT, etc./see "Additional Products"). 15-pin D-SUB male connector, control logic: Positive switching                                     |
| 2295554 | PLC-V8/FLK14/OUT   | V8-OUTPUT 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  |
| 2304102 | PLC-V8/FLK14/OUT/M | V8-OUTPUT 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 |

### Marking

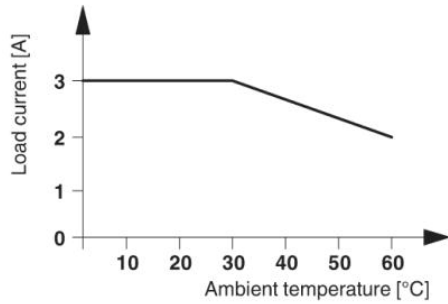
|         |                       |   |
|---------|-----------------------|---|
| 1051016 | ZB 6,LGS:FORTL.ZAHLEN | Zack marker strip, 10-section, printed horizontally: with the numbers 1 - 10, 11 - 20 and so on up to 491 - 500, color: white                 |
| 1051003 | ZB 6:UNBEDRUCKT       | Zack 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**

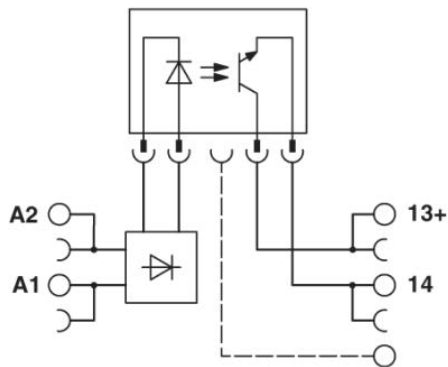
|         |               |   |
|---------|---------------|---|
| 1204517 | SZF 1-0,6X3,5 | Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip |
|---------|---------------|---|

**Diagrams/Drawings**

Diagram



Circuit diagram



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