

# PLC-OPIT- 60DC/230AC/1

Order No.: 2900371




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PLC interface, consisting of PLC-BPITC basic terminal block with Push-In connection and pluggable miniature optocoupler, for assembly on DIN rail NS 35/7.5, input: 60 V DC, output: 24-253 V AC/ 0.75 A



## Commercial data

|                          |  |
|--------------------------|--|
| GTIN (EAN)               | <br>4 046356 508827 |
| Note                     | Made-to-order  |
| sales group              | G247   |
| Pack                     | 10 pcs.  |
| Customs tariff           | 85364190   |
| Catalog page information | Page 85 (IF-2011)  |

## Product notes

WEEE/RoHS-compliant since:  
11/17/2009



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## Technical data

### Input data

|  |             |
|--|-------------|
| Nominal input voltage $U_N$                          | 60 V DC     |
| Input voltage range in reference to $U_N$            | 0.8 ... 1.2 |
| Switching threshold "0" signal in reference to $U_N$ | $\leq 0.3$  |

|  |                                      |
|--|--------------------------------------|
| Switching threshold "1" signal in reference to $U_N$ | $\geq 0.8$                           |
| Typical input current at $U_N$                       | 6 mA                                 |
| Typical response time                                | 10 ms (at $U_N$ )                    |
| Typical turn-off time                                | 10 ms (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                               | 10 Hz                                |

#### Output data

|  |                             |
|--|-----------------------------|
| Output nominal voltage range                     | 24 V AC ... 253 V AC        |
| Limiting continuous current                      | 0.75 A (see derating curve) |
| Maximum inrush current                           | 30 A (10 ms)                |
| Min. load current                                | 10 mA                       |
| Leakage current                                  | < 1 mA (in off state)       |
| Max. load value                                  | 4.5 A <sup>2</sup> s        |
| Voltage drop at max. limiting continuous current | < 1 V                       |
| Output circuit                                   | 2-wire, floating            |
| Type of protection                               | RCV circuit                 |

#### 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

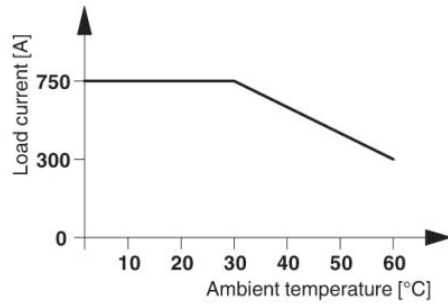
### Accessories

| 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                                   |

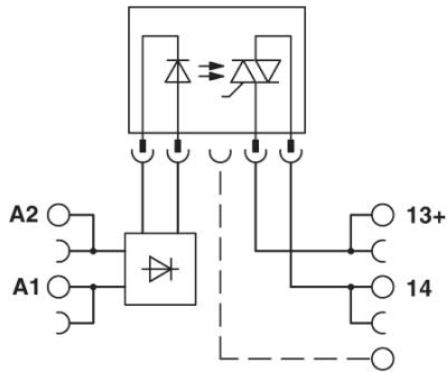
|                |                        |  |
|----------------|------------------------|--|
| 2966841        | PLC-ATP BK             | Separating plate, 2 mm thick, required at the start and end of a PLC terminal strip. Furthermore, it is used for: visual separation of groups, safe isolation of different voltages of neighboring PLC relays in acc. with DIN VDE 0106-101, isolation |
| <b>Bridges</b> |                        |  |
| 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  |
| <b>General</b> |                        |  |
| 2967963        | OPT-60DC/230AC/ 1      | Pluggable miniature optocouplers, power optocouplers, input: 60 V DC, output: 24-253 V AC/ 0.75 A  |
| 2900279        | PLC-BPIT- 60DC/21      | 6.2 mm PLC basic terminal blocks in Push-In connection method, input voltage of 60 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  |
| <b>Marking</b> |                        |  |
| 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  |
| <b>Tools</b>   |                        |  |
| 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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