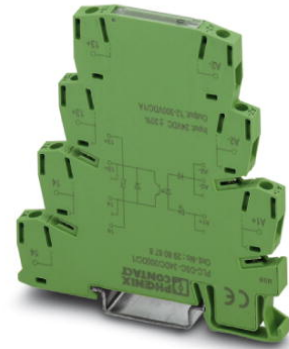


PLC-OSC- 12DC/300DC/ 1

Order No.: 2980665

The illustration shows the version PLC-OSC-24DC/300DC/1




<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2980665>

PLC relay, integrated optocoupler, with screw connection, for mounting on DIN rail NS 35/7.5, input: 12 V DC, output: 12-300 V DC/1 A



Commercial data

| | |
|--------------------------|---|
| GTIN (EAN) |  4 046356 051408 |
| sales group | G242 |
| Pack | 10 pcs. |
| Customs tariff | 85364900 |
| Catalog page information | Page 112 (IF-2011) |

Product notes

WEEE/RoHS-compliant since:
04/11/2006



<http://www.download.phoenixcontact.com>
Please note that the data given here has been taken from the online catalog. For comprehensive information and data, please refer to the user documentation. The General Terms and Conditions of Use apply to Internet downloads.

Technical data

Input data

| | |
|--|-------------|
| Nominal input voltage U_N | 12 V DC |
| Input voltage range in reference to U_N | 0.8 ... 1.2 |
| Switching threshold "0" signal in reference to U_N | ≤ 0.4 |

| | |
|--|--------------------------------------|
| Switching threshold "1" signal in reference to U_N | ≥ 0.8 |
| Typical input current at U_N | 6 mA |
| Typical response time | 0.3 ms |
| Typical turn-off time | 0.8 ms |
| Operating voltage display | Yellow LED |
| Type of protection | Protection against polarity reversal |
| | Surge protection |
| Protective circuit/component | Polarity protection diode |
| | Varistor |
| Transmission frequency | 50 Hz |

Output data

| Name | Output data |
|--|---|
| Output nominal voltage range | 12 V DC ... 300 V DC (Partition plate PLC-ATP must be installed for voltages larger than 250 V (L1, L2, L3) between identical terminal points in adjacent modules. Potential bridging is then carried out with FBST 8-PLC... or ...FBST 500...) |
| Limiting continuous current | 1 A (see derating curve) |
| Voltage drop at max. limiting continuous current | < 500 mV |
| Type of protection | Protection against polarity reversal |
| | Surge protection |
| Protective circuit/component | Polarity protection diode |
| | Varistor |

Connection data

| | |
|--|----------------------|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Screw thread | M3 |
| 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 |

General data

| | |
|--------|--------|
| Width | 6.2 mm |
| Height | 80 mm |

| | |
|---|---------------------------|
| Depth | 86 mm |
| Ambient temperature (operation) | -25 °C ... 60 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Mounting position | Any |
| Assembly instructions | In rows with zero spacing |
| Operating mode | 100% operating factor |
| Inflammability class acc. to UL 94 | V0 |
| Name | Standards/regulations |
| Standards/regulations | IEC 60664 |
| | EN 50178 |
| | IEC 62103 |
| Rated surge voltage / insulation | 4 kV / basic insulation |
| Rated insulation voltage | 300 V |
| Pollution degree | 2 |
| Surge voltage category | III |

Certificates / Approvals



Certification

CUL Listed, GL, 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: 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 |
| 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

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

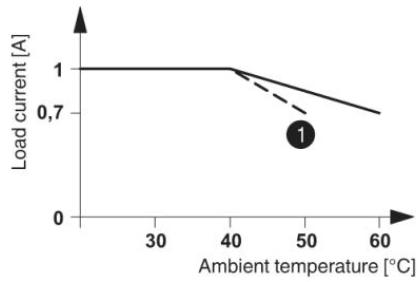
Tools

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

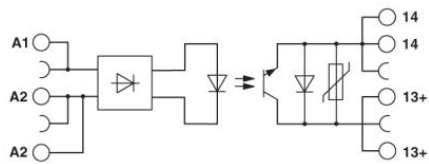
Diagram

The illustration shows the derating curve for PLC-...300DC/1



① For input voltages of 220 V DC and 230 V DC

Circuit diagram



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