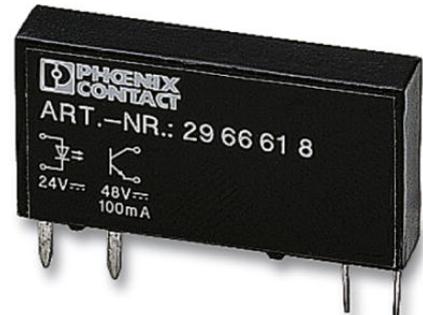


## OPT-60DC/ 24DC/ 2

Order No.: 2966605

The illustration shows the version OPT-24DC/48DC/100



<http://catalog.phoenixcontact.net/phoenix/treeViewClick.do?UID=2966605>

Pluggable miniature optocouplers, power optocouplers, input: 60 V DC, output: 3-33 V DC/3 A

### Commercial data

|                          |   |
|--------------------------|---|
| EAN                      | <br>4 017918 130923 |
| Pack                     | 10 Pcs.   |
| Customs tariff           | 85364190  |
| Product key              | CK61F2  |
| Catalog page information | Page 100 (IF-2011)  |

### Product notes

WEEE/RoHS-compliant since:  
05/09/2006



<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 $U_N$               | 60 V DC     |
| Input voltage range in reference to $U_N$ | 0.8 ... 1.2 |
| Switching threshold "0" signal, voltage   | $\leq 20$ V |
| Switching threshold "1" signal voltage    | $\geq 35$ V |

|                                |                         |
|--------------------------------|-------------------------|
| Typical input current at $U_N$ | 3 mA                    |
| Typical response time          | 40 $\mu$ s (at $U_N$ )  |
| Typical turn-off time          | 500 $\mu$ s (at $U_N$ ) |
| 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 | $\leq$ 150 mV  |
| Output circuit                                   | 2-wire, floating   |
| Type of protection                               | Protection against polarity reversal<br>Surge protection |
| Protective circuit/component                     | Polarity protection diode                                |

#### General data

|   |                                    |
|---|------------------------------------|
| Width                                   | 5 mm                               |
| Height                                  | 28 mm                              |
| Depth                                   | 15 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              |
| Name                                    | Standards/regulations              |
| Standards/regulations                   | IEC 60664<br>EN 50178<br>IEC 62103 |
| Rated surge voltage / insulation        | Basic insulation                   |
| Pollution degree                        | 2                                  |
| Surge voltage category                  | III                                |

#### Certificates / Approvals



Certification

CUL, GL, GOST, UL

**Additional products**

| Item                                    | Designation                | Description   |
|---|----------------------------|---|
| <b>Basic terminal block with filter</b> |                            |   |
| 2900456                                 | PLC-BPIT-120UC/ 1/SEN/SO46 | 6.2 mm PLC sensor basic terminal blocks with Push-In connection and integrated RCZ filter against interference currents/voltages on the control side, input voltage 120 V AC/DC(without relay or optocoupler)                 |
| 2900453                                 | PLC-BPIT-120UC/21/SO46     | 6.2 mm PLC basic terminal blocks with Push-In connection and integrated RCZ filter against interference currents/voltages on the control side, input voltage 120 V AC/DC (without relay or optocoupler)                       |
| 2900457                                 | PLC-BPIT-230UC/ 1/SEN/SO46 | 6.2 mm PLC sensor basic terminal blocks with Push-In connection and integrated RCZ filter against interference currents/voltages on the control side, input voltage 230 V AC/DC(without relay or optocoupler)                 |
| 2900455                                 | PLC-BPIT-230UC/21/SO46     | 6.2 mm PLC basic terminal blocks with Push-In connection and integrated RCZ filter against interference currents/voltages on the control side, input voltage 230 V AC/DC(without relay or optocoupler)                        |
| 2980322                                 | PLC-BSC-120UC/ 1/SEN/SO46  | 6.2 mm PLC sensor basic terminal blocks with screw connection method and integrated RCZ filter against interference voltages and currents on the control side, input voltage 120 V AC/ DC(without relay or optocoupler)       |
| 2980319                                 | PLC-BSC-120UC/21/SO46      | 6.2 mm PLC basic terminal blocks with screw connection method and integrated RCZ filter against interference voltages and currents on the control side, input voltage 120 V AC/DC(without relay or optocoupler)               |
| 2980348                                 | PLC-BSC-230UC/ 1/SEN/SO46  | 6.2 mm PLC sensor basic terminal blocks with screw connection method and integrated RCZ filter against interference voltages and currents on the control side, input voltage 230 V AC/ DC(without relay or optocoupler)       |
| 2980335                                 | PLC-BSC-230UC/21/SO46      | 6.2 mm PLC basic terminal blocks with screw connection method and integrated RCZ filter against interference voltages and currents on the control side, input voltage 230 V AC/DC(without relay or optocoupler)               |
| 2980364                                 | PLC-BSP-120UC/ 1/SEN/SO46  | 6.2 mm PLC sensor basic terminal blocks with spring-cage connection method and integrated RCZ filter against interference voltages and currents on the control side, input voltage 120 V AC/ DC(without relay or optocoupler) |
| 2980351                                 | PLC-BSP-120UC/21/SO46      | 6.2 mm PLC basic terminal blocks with spring-cage connection method and integrated RCZ filter against interference voltages and currents on the control side, input voltage 120 V AC/ DC(without relay or optocoupler)        |

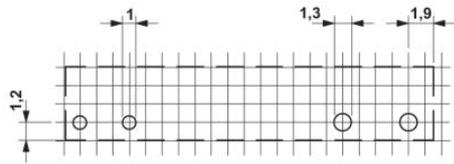
|         |                           |  |
|---------|---------------------------|--|
| 2980380 | PLC-BSP-230UC/ 1/SEN/SO46 | 6.2 mm PLC sensor basic terminal blocks with spring-cage connection method and integrated RCZ filter against interference voltages and currents on the control side, input voltage 230 V AC/DC(without relay or optocoupler) |
| 2980377 | PLC-BSP-230UC/21/SO46     | 6.2 mm PLC basic terminal blocks with spring-cage connection method and integrated RCZ filter against interference voltages and currents on the control side, input voltage 230 V AC/DC(without relay or optocoupler)        |

**General**

|         |                      |   |
|---------|----------------------|---|
| 2900279 | PLC-BPT- 60DC/21     | 6.2 mm PLC basic terminal blocks in Push-In connection method, input voltage of 60 V DC (without relay or optocoupler)              |
| 2900451 | PLC-BPT-120UC/ 1/SEN | 6.2 mm PLC sensor basic terminal blocks with Push-In connection method, input voltage of 120 V AC (without relay or optocoupler)    |
| 2900280 | PLC-BPT-120UC/21     | 6.2 mm PLC basic terminal blocks with Push-In connection method, input voltage of 120 V AC (without relay or optocoupler)           |
| 2900452 | PLC-BPT-230UC/ 1/SEN | 6.2 mm PLC sensor basic terminal blocks with Push-In connection method, input voltage of 230 V AC (without relay or optocoupler)    |
| 2900281 | PLC-BPT-230UC/21     | 6.2 mm PLC basic terminal blocks with Push-In connection method, input voltage of 230 V AC (without relay or optocoupler)           |
| 2966100 | PLC-BSC- 60DC/21     | 6.2 mm PLC basic terminal blocks with screw connection method, input voltage 60 V DC(without relay or optocoupler)                  |
| 2966074 | PLC-BSC-120UC/ 1/SEN | 6.2 mm PLC sensor basic terminal blocks with screw connection method, input voltage 120 V AC/DC(without relay or optocoupler)       |
| 2966032 | PLC-BSC-120UC/21     | 6.2 mm PLC basic terminal blocks with screw connection method, input voltage 120 V AC/DC(without relay or optocoupler)              |
| 2966087 | PLC-BSC-230UC/ 1/SEN | 6.2 mm PLC sensor basic terminal blocks with screw connection method, input voltage 230 V AC/DC(without relay or optocoupler)       |
| 2966045 | PLC-BSC-230UC/21     | 6.2 mm PLC basic terminal blocks with screw connection method, input voltage 230 V AC/DC(without relay or optocoupler)              |
| 2967332 | PLC-BSP- 60DC/21     | 6.2 mm PLC basic terminal blocks with spring-cage connection method, input voltage 60 V DC(without relay or optocoupler)            |
| 2967154 | PLC-BSP-120UC/ 1/SEN | 6.2 mm PLC sensor basic terminal blocks with spring-cage connection method, input voltage 120 V AC/DC(without relay or optocoupler) |
| 2967167 | PLC-BSP-120UC/21     | 6.2 mm PLC basic terminal blocks with spring-cage connection method, input voltage 120 V AC/DC(without relay or optocoupler)        |
| 2967170 | PLC-BSP-230UC/ 1/SEN | 6.2 mm PLC sensor basic terminal blocks with spring-cage connection method, input voltage 230 V AC/DC(without relay or optocoupler) |
| 2967183 | PLC-BSP-230UC/21     | 6.2 mm PLC basic terminal blocks with spring-cage connection method, input voltage 230 V AC/DC(without relay or optocoupler)        |

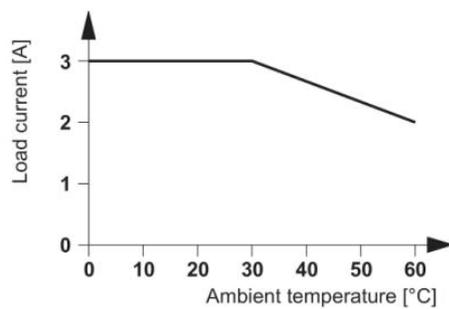
## Drawings

### Drilling plan/solder pad geometry

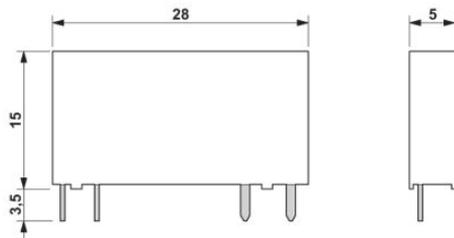


a = pitch division 1.25 mm and 1.27 mm

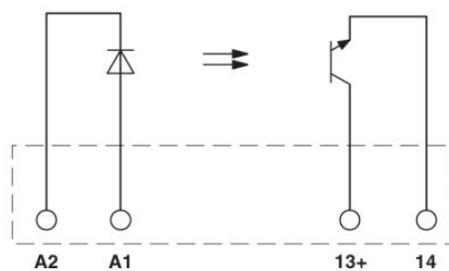
### Diagram



### Dimensioned drawing



### Circuit diagram



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