

# PLC-BPT-230UC/21/SO46 - Relay base



2900455

<https://www.phoenixcontact.com/in/products/2900455>

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6.2 mm PLC basic terminal block against interference currents/voltages on the control side with Push-in connection, without relay or solid-state relay, for mounting on DIN rail NS 35/7,5, with integrated RCZ filter, 1 changeover contact, input voltage 230 V AC

## Your advantages

- High relay release voltage
- Resistant to interference currents

## Commercial Data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2900455             |
| Packing unit                         | 10 pc               |
| Minimum order quantity               | 1 pc                |
| Sales Key                            | CK6                 |
| Product Key                          | CK6231              |
| Catalog Page                         | Page 388 (C-5-2019) |
| GTIN                                 | 4046356507752       |
| Weight per Piece (including packing) | 27.48 g             |
| Weight per Piece (excluding packing) | 25 g                |
| Customs tariff number                | 85366990            |
| Country of origin                    | DE                  |

## Technical Data

### Notes

#### Utilization restriction

|          |   |
|----------|---|
| EMC note | EMC: class A product, see manufacturer's declaration in the download area |
|----------|---|

### Product properties

|                       |  |
|-----------------------|--|
| Product type          | Relay socket   |
| Product family        | PLC-INTERFACE  |
| Application           | Filter to prevent interference   |
| Operating mode        | 100% operating factor  |
| Compatible components | Miniature relay, REL-MR-60DC/21AU, REL-MR-60DC/21; miniature optocoupler, OPT-60DC/48DC/100, OPT-60DC/24DC/2, OPT-60DC/230AC/1 |

### Electrical properties

|                    |                                    |
|--------------------|------------------------------------|
| Protective circuit | Bridge rectifier; Bridge rectifier |
|                    | RCZ filter; RCZ filter             |

### Input data

|                             |          |
|-----------------------------|----------|
| Nominal input voltage $U_N$ | 230 V AC |
|-----------------------------|----------|

#### Relay assembly

|   |                                    |
|---|------------------------------------|
| Nominal input voltage $U_N$               | 230 V AC                           |
| Input voltage range in reference to $U_N$ | 0.78 ... 1.14                      |
| Typical input current at $U_N$            | 8.8 mA (50 Hz)                     |
|   | 10 mA (60 Hz)                      |
| Typical response time                     | 7 ms                               |
| Typical release time                      | 20 ms                              |
| Typical release voltage                   | 80 V AC                            |
| Operating voltage display                 | Yellow LED                         |
| Protective circuit                        | Bridge rectifier; Bridge rectifier |
|   | Filter; Filter                     |

#### Optocoupler assembly

|  |                                    |
|--|------------------------------------|
| Nominal input voltage $U_N$                          | 230 V AC                           |
| Input voltage range in reference to $U_N$            | 0.8 ... 1.1                        |
| Typical input current at $U_N$                       | 8.8 mA (50 Hz)                     |
|  | 10 mA (60 Hz)                      |
| Switching threshold "0" signal in reference to $U_N$ | $\leq 0.4$                         |
| Typical response time                                | 6 ms                               |
| Typical release time                                 | 10 ms                              |
| Operating voltage display                            | Yellow LED                         |
| Protective circuit                                   | Bridge rectifier; Bridge rectifier |

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|  |                |
|--|----------------|
|  | Filter; Filter |
|--|----------------|

## Output data

|  |   |
|--|---|
| Compatible components                            | Miniature relay, REL-MR-60DC/21AU, REL-MR-60DC/21; miniature optocoupler, OPT-60DC/48DC/100, OPT-60DC/24DC/2, OPT-60DC/230AC/1  |
| Maximum switching voltage                        | 48 V DC   |
| Minimum switching voltage                        | 3 V DC  |
| Limiting continuous current                      | 100 mA  |
| Voltage drop at max. limiting continuous current | < 1 V DC  |
| Output circuit                                   | 2-conductor, floating   |
| Protective circuit                               | Reverse polarity protection<br>Surge protection   |
| Maximum switching voltage                        | 30 V DC   |
| Minimum switching voltage                        | 3 V DC  |
| Limiting continuous current                      | 3 A   |
| Voltage drop at max. limiting continuous current | < 200 mV  |
| Maximum inrush current                           | 15 A (10 ms)  |
| Output circuit                                   | 2-conductor, floating   |
| Protective circuit                               | Reverse polarity protection<br>Surge protection   |
| Maximum switching voltage                        | 253 V AC (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...) |
| Minimum switching voltage                        | 24 V AC   |
| Limiting continuous current                      | 0.75 A  |
| Voltage drop at max. limiting continuous current | < 1 V AC  |
| Maximum inrush current                           | 30 A (10 ms)  |
| Output circuit                                   | 2-conductor, floating   |
| Protective circuit                               | RCV circuit   |
| Leakage current                                  | < 1 mA  |
| Phase angle cos phi min                          | 0.5   |
| Max. load value                                  | 4.5 A <sup>2</sup> s  |

## Connection data

|                                  |   |
|----------------------------------|---|
| Connection method                | Push-in connection  |
| Stripping length                 | 10 mm   |
| Conductor cross section rigid    | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>  |
| Conductor cross section flexible | 0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup><br>0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> (Single ferrule)<br>2x 0.5 mm <sup>2</sup> ... 1 mm <sup>2</sup> (TWIN ferrule) |
| Conductor cross section AWG      | 26 ... 14   |

## Signaling

|                |     |
|----------------|-----|
| Status display | LED |
|----------------|-----|

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## Dimensions

|        |        |
|--------|--------|
| Width  | 6.2 mm |
| Height | 80 mm  |
| Depth  | 94 mm  |

## Material specifications

|  |              |
|--|--------------|
| Flammability rating according to UL 94 | V0 (Housing) |
|--|--------------|

## Environmental and real-life conditions

### Ambient conditions

|   |                  |
|---|------------------|
| Ambient temperature (operation)         | -40 °C ... 55 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |

## Approvals

### Corrosive gas test

|                |                            |
|----------------|----------------------------|
| Identification | ISA-S71.04. G3 Harsh Group |
|                | EN 60068-2-60              |

## Mounting

|                       |                           |
|-----------------------|---------------------------|
| Mounting type         | DIN rail mounting         |
| Assembly instructions | in rows with zero spacing |
| Mounting position     | any                       |

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PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)