

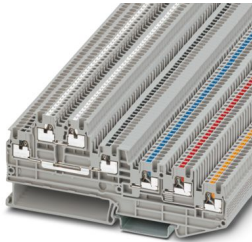
# PTIO 1,5/S/5/U-BK/O-WH - Initiator/actuator terminal block



3244472

<https://www.phoenixcontact.com/us/products/3244472>

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Initiator/actuator terminal block, nom. voltage: 250 V, nominal current: 13.5 A, number of connections: 7, connection method: Push-in connection, Rated cross section: 1.5 mm<sup>2</sup>, cross section: 0.14 mm<sup>2</sup> - 1.5 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: gray

## Your advantages

- The compact design and front connection enable wiring in a confined space
- The Push-in connection terminal blocks are characterized by the system features of the CLIPLINE complete system and by easy and tool-free wiring of conductors with ferrules or solid conductors

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 3244472       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | BE22          |
| Product key                          | BE2218        |
| GTIN                                 | 4055626447872 |
| Weight per piece (including packing) | 12.968 g      |
| Weight per piece (excluding packing) | 9.99 g        |
| Customs tariff number                | 85369010      |
| Country of origin                    | PL            |

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## Technical data

### Product properties

|                       |                                |
|-----------------------|--------------------------------|
| Product type          | Sensor/actuator terminal block |
| Number of connections | 7                              |
| Number of rows        | 5                              |
| Potentials            | 5                              |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Electrical properties

|   |        |
|---|--------|
| Rated surge voltage                             | 4 kV   |
| Maximum power dissipation for nominal condition | 0.56 W |

### Connection data

|   |  |
|---|--|
| Number of connections per level                                   | 2  |
| Nominal cross section   | 1.5 mm <sup>2</sup>  |
| Connection method   | Push-in connection   |
| Stripping length  | 8 mm ... 10 mm   |
| Internal cylindrical gage   | A1 / B1  |
| Connection in acc. with standard                                  | IEC 60947-7-1  |
| Conductor cross-section rigid                                     | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>   |
| Cross section AWG   | 26 ... 16 (converted acc. to IEC)  |
| Conductor cross-section flexible                                  | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>   |
| Conductor cross-section, flexible [AWG]                           | 26 ... 16 (converted acc. to IEC)  |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>   |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.14 mm <sup>2</sup> ... 1 mm <sup>2</sup> (Using the AI-S 1-8 TQ ferrule, Item No. 1200293, is recommended) |
| Nominal cross section   | 1.5 mm <sup>2</sup>  |
| Nominal current   | 13.5 A   |
| Maximum load current  | 13.5 A   |
| Nominal voltage   | 250 V  |

### Connection cross sections directly pluggable

|   |  |
|---|--|
| Conductor cross-section rigid                                     | 0.25 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 0.34 mm <sup>2</sup> ... 1 mm <sup>2</sup>   |

### Dimensions

|                 |           |
|-----------------|-----------|
| Width           | 3.5 mm    |
| End cover width | 0.8 mm    |
| Height          | 121.65 mm |
| Depth           | 44.6 mm   |

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|                    |         |
|--------------------|---------|
| Depth on NS 35/7,5 | 52.1 mm |
| Depth on NS 35/15  | 59.6 mm |

## Material specifications

|  |                 |
|--|-----------------|
| Color                                  | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0              |
| Insulating material group              | I               |
| Insulating material                    | PA              |

## Mechanical properties

### Mechanical data

|                 |     |
|-----------------|-----|
| Open side panel | Yes |
|-----------------|-----|

## Environmental and real-life conditions

### Ambient conditions

|  |  |
|--|--|
| Ambient temperature (operation)          | -60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.) |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)  |
| Ambient temperature (assembly)           | -5 °C ... 70 °C  |
| Ambient temperature (actuation)          | -5 °C ... 70 °C  |
| Permissible humidity (operation)         | 20 % ... 90 %  |
| Permissible humidity (storage/transport) | 30 % ... 70 %  |

## Standards and regulations

|                                  |               |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
|----------------------------------|---------------|

## Mounting

|               |           |
|---------------|-----------|
| Mounting type | NS 35/7,5 |
|               | NS 35/15  |

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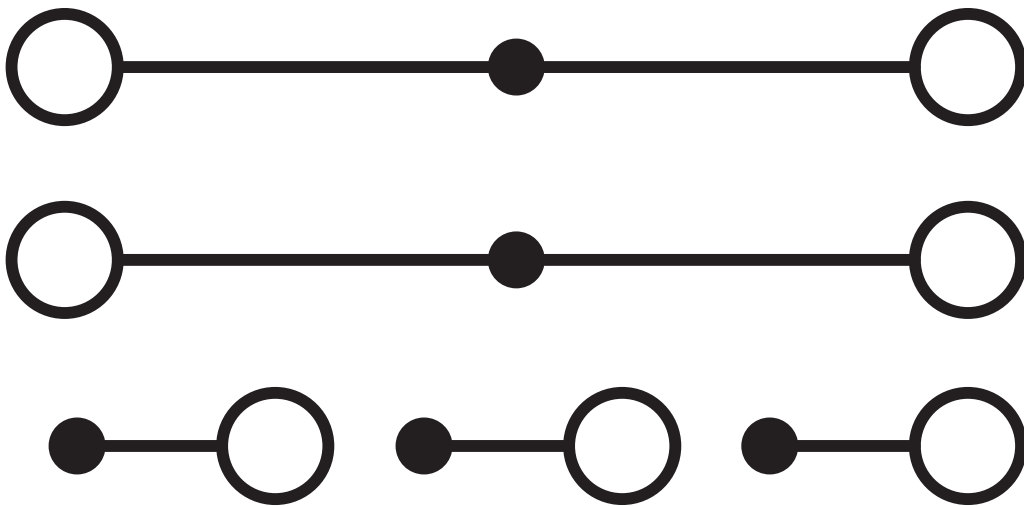


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## Drawings

Circuit diagram



# PTIO 1,5/S/5/U-BK/O-WH - Initiator/actuator terminal block





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## Approvals

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|  <b>CSA</b><br>Approval ID: 13631 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| <b>B</b>   |                       |                       |                   |                      |
|  | 300 V                 | 15 A                  | 26 - 14           | -                    |
| PE connection  | 300 V                 | -                     | 26 - 14           | -                    |
| <b>C</b>   |                       |                       |                   |                      |
|  | 300 V                 | 15 A                  | 26 - 14           | -                    |
| PE connection  | 300 V                 | -                     | 26 - 14           | -                    |
| <b>D</b>   |                       |                       |                   |                      |
|  | 600 V                 | 5 A                   | 26 - 14           | -                    |
| PE connection  | 600 V                 | -                     | 26 - 14           | -                    |

|  <b>EAC</b><br>Approval ID: RU C-DE.BL08.B.00644 |  |  |  |  |
|---|--|--|--|--|
|---|--|--|--|--|

|  <b>cULus Recognized</b><br>Approval ID: E60425 |                       |                       |                   |                      |
|--|-----------------------|-----------------------|-------------------|----------------------|
|  | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
| <b>B</b>   |                       |                       |                   |                      |
|  | 300 V                 | 15 A                  | 26 - 14           | -                    |
| PE connection  | 300 V                 | -                     | 26 - 14           | -                    |
| <b>C</b>   |                       |                       |                   |                      |
|  | 150 V                 | 15 A                  | 26 - 14           | -                    |
| PE connection  | 300 V                 | -                     | 26 - 14           | -                    |
| <b>F</b>   |                       |                       |                   |                      |
|  | 500 V                 | 15 A                  | 26 - 14           | -                    |
| <b>D</b>   |                       |                       |                   |                      |
| PE connection  | 300 V                 | -                     | 26 - 14           | -                    |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27250112 |
| ECLASS-15.0 | 27250112 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC000900 |
|-----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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