

BXT-4XP-SEC-T3-120+2X2-24AC - Surge protection device



2908686

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Wall-mounted NEMA 4/4X (IP66/67) polycarbonate enclosure with surge protection for 120 V AC/DC power and two 24 V AC loops with 28 V AC/40 V DC MCOV

Your advantages

- Eligible for limited lifetime warranty (in some U.S. markets)
- Customizable: expand base unit with SPDs to suit your application
- Polycarbonate and 316L stainless steel enclosures available
- UL 1449 Listed SPD
- Single solution for power, data, and signal in one enclosure

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2908686 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | CL20 |
| Product key | CL1481 |
| GTIN | 4055626321509 |
| Weight per piece (including packing) | 846 g |
| Weight per piece (excluding packing) | 734 g |
| Country of origin | DE |

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Set consists of

PLT-SEC-T3-120-FM-UT - Type 3 surge protection device

2907918

<https://www.phoenixcontact.com/us/products/2907918>



Type 2/3 surge protection, consisting of protective plug and base element, with integrated status indicator and remote signaling for single-phase power supply networks. Nominal voltage: 120 V AC/DC

PT 2X2-24AC-ST - Surge protection plug

2838283

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PT protective connector with protective circuit for two 2-wire floating signal circuits. 24 V AC nominal voltage. HART-compatible.

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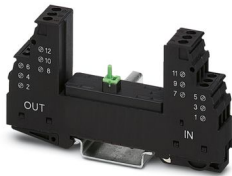
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PT 2X2+F-BE - Surge protection base-element

2839224

<https://www.phoenixcontact.com/us/products/2839224>

Base element for protective plug PT with protective circuit for two 2-wire floating signal circuit, gas-filled surge arrester between the connections 3-4 (GND) and 9-10, for mounting on NS 35/7.5 and NS 35/15, housing width: 17.5 mm



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Technical data

Notes

Trade restriction

| | |
|---------|--|
| CE note | The products are offered exclusively for export outside the EU and the European Economic Area. |
|---------|--|

Product properties

| | |
|--------------------------------|---|
| Product type | Device protection |
| Type | DIN rail module, two-section, divisible |
| Surge protection fault message | optical |
| EN type | T2 / T3 |
| Number of ports | One |

Electrical properties

| | |
|-----------------------|------------------|
| Nominal voltage U_N | 120 V AC (Power) |
| | 24 V AC (Signal) |

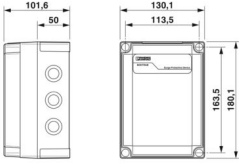
Indicator/remote signaling

| | |
|--------------------|--------------------------------|
| Connection name | Remote fault indicator contact |
| Switching function | Changeover contact |

Connection data

| | |
|---------------------------------------|---------------------|
| Screw thread | M3 |
| Tightening torque, min | 0.5 Nm |
| Conductor cross-section flexible min. | 0.2 mm ² |
| Conductor cross-section flexible max. | 2.5 mm ² |
| Conductor cross-section, rigid min. | 0.2 mm ² |
| Conductor cross-section, rigid max. | 4 mm ² |
| Connection method | Screw connection |
| Screw thread | M3 |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 130 mm |
| Height | 180 mm |
| Depth | 120 mm |

Material specifications

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| | |
|------------------|----|
| Housing material | PC |
|------------------|----|

Protective circuit

Power supplies

| | |
|-----------------------|--|
| Direction of action | L/N-PE & Signal Line-Shield-Earth Ground |
| Nominal voltage U_N | 120 V AC (TN-S) |
| | 120 V AC (TT) |

Information technology

| | |
|--|-----------------------|
| Nominal voltage U_N | 120 V AC (Power) |
| | 24 V AC (Signal) |
| Max. operating voltage U_{max} | 150 V AC (Power) |
| | 28 V AC (Signal) |
| Nominal current I_N | 20 A (Power) |
| | 450 mA (Signal) |
| Max. discharge current I_{max} (8/20) μ s | 10 kA (Power) |
| Max. discharge current I_{max} (8/20) μ s maximum (line-line) | 10 kA (Signal) |
| Max. discharge current I_{max} (8/20) μ s maximum (line-earth) | 20 kA (Signal) |
| Resistance per path | 2.2 Ω (Signal) |

Environmental and real-life conditions

Ambient conditions

| | |
|---|------------------|
| Degree of protection | IP66/NEMA 4X |
| Ambient temperature (operation) | -40 °C ... 80 °C |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C |
| Altitude | \leq 2000 mm |
| Permissible humidity (operation) | 5 % ... 95 % |

Approvals

UL specifications

| | |
|---|-------------|
| Maximum continuous operating voltage MCOV | 150 V AC/DC |
| Short-circuit current rating (SCCR) | 10 kA |
| Voltage protection rating VPR (L-N) | 700 V |
| Voltage protection rating VPR (L-G) | 1000 V |
| Voltage protection rating VPR (N-G) | 900 V |
| Voltage protection rating VPR (DC+) - (DC-) | 700 V |
| Voltage protection rating VPR (DC+) - G | 1000 V |
| Voltage protection rating VPR (DC-) - G | 900 V |
| UL type | type 2 |
| Nominal discharge current I_n | 5 kA |
| Maximum Circuit Breaker | 25.00 A |
| Maximum Surge Current per Phase | 20 A |

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Mounting

Mounting type

Panel mounting

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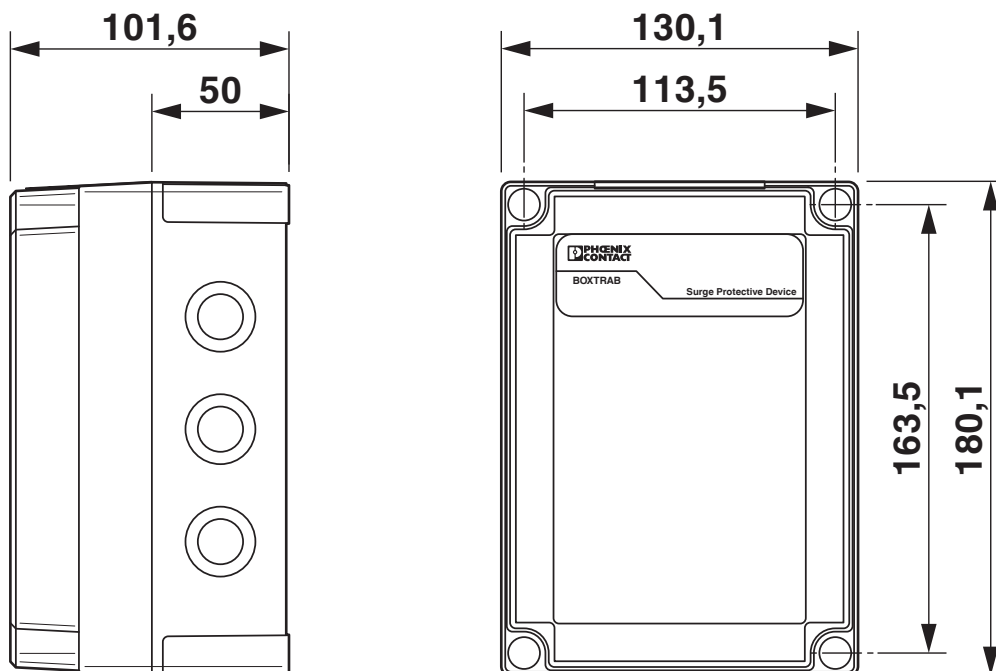


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Drawings

Dimensional drawing



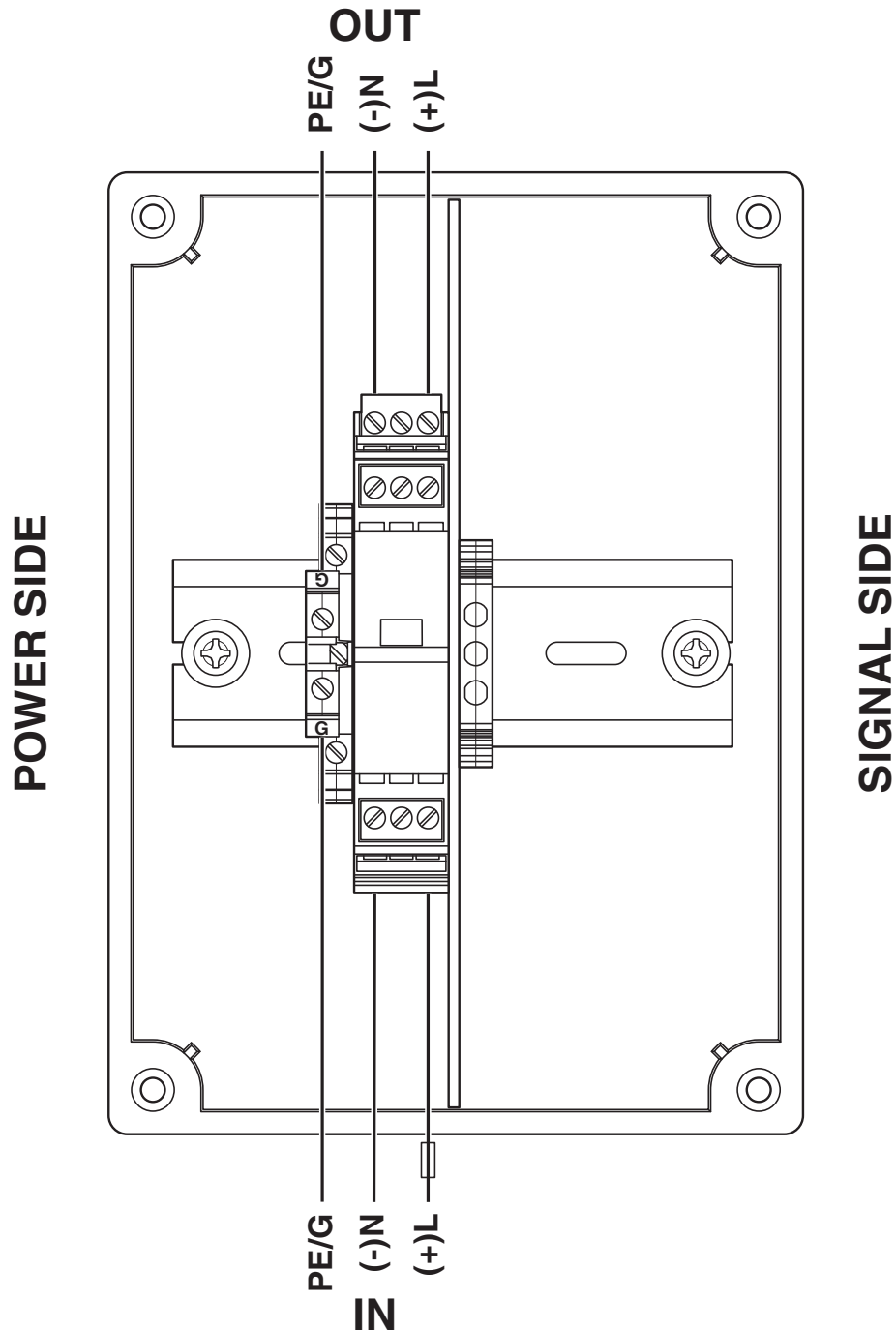
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Connection diagram



Connections for power protection only are shown. For signal protection connection, refer to included article datasheet. Signal and power protection may be bonded through DIN rail.

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Approvals

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UL Listed

Approval ID: FILE E 330181



cUL Listed

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27171602 |
| ECLASS-15.0 | 27171602 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001625 |
|-----------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Not applicable, Not qualified for the European market |
|---|---|

EU REACH SVHC

| | |
|-------------------------------------|----------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1) |
|-------------------------------------|----------------------|

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com