

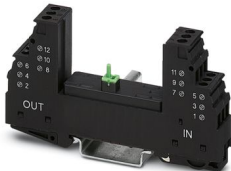
PT 2X2+F-BE - Surge protection base-element



2839224

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

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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

Your advantages

- Maximum ease of maintenance, thanks to the 2-piece design
- Easy selection for all possible demands in MCR applications with a complete product portfolio
- The signal is not influenced during maintenance work, thanks to the impedance-neutral insertion and removal of protective plugs

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2839224 |
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | CL21 |
| Product key | CL2111 |
| GTIN | 4017918182762 |
| Weight per piece (including packing) | 58.2 g |
| Weight per piece (excluding packing) | 58.2 g |
| Customs tariff number | 85363010 |
| Country of origin | DE |

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Technical data

Notes

| | |
|--------------------|--|
| Notes on operation | In the base elements PT...+F-BE , the connections 9/10 (GND) are linked to the mounting foot via a gas-filled surge arrester. |
|--------------------|--|

Product properties

| | |
|--------------------------------|---------------------------------|
| Product type | Base element |
| Product family | PLUGTRAB PT |
| Type | Base element, DIN rail mounting |
| Number of positions | 4 |
| Surge protection fault message | none |
| Wire pairs per module | 2 |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Pollution degree | 2 |

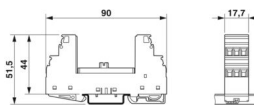
Electrical properties

| | |
|-----------------------|---------|
| Nominal voltage U_N | 24 V AC |
| | 24 V DC |

Connection data

| | |
|----------------------------------|---|
| Connection method | Screw connection |
| Screw thread | M3 |
| Tightening torque | 0.5 Nm |
| Conductor cross-section flexible | 0.2 mm ² ... 2.5 mm ² |
| Conductor cross-section rigid | 0.2 mm ² ... 4 mm ² |
| Conductor cross-section AWG | 24 ... 12 |

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 17.7 mm |
| Height | 90 mm |
| Depth | 51.5 mm (incl. DIN rail 7.5 mm) |
| Horizontal pitch | 1 Div. |

Material specifications

| | |
|-------|------------------|
| Color | black (RAL 9005) |
| | copper color |

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| | |
|--|--------|
| Flammability rating according to UL 94 | V-0 |
| Housing material | PA 6.6 |

Mechanical properties

Mechanical data

| | |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

Protective circuit

| | |
|--|-----------------------------------|
| Direction of action | Signal Ground/Shield-Earth Ground |
| Maximum continuous operating voltage U_C | 40 V DC |
| | 28 V AC |
| Rated current | 450 mA (45 °C) |
| Resistance per path | 2.2 Ω \pm 10 % |
| Surge protection fault message | none |
| Max. required back-up fuse | 500 mA (T) |

Environmental and real-life conditions

Ambient conditions

| | |
|---|----------------------|
| Degree of protection | IP20 |
| Ambient temperature (operation) | -40 °C ... 85 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Altitude | \leq 2000 m (amsl) |

Standards and regulations

Air clearances and creepage distances

| | |
|--------------------------|---|
| Standards/regulations | VDE 0110-1 |
| Standards/specifications | IEC 61643-21 |
| Note | 2000 + corrigendum 2001 + A1:2008, modified + A2:2012 |
| Standards/specifications | EN 61643-21 |
| Note | 2001 + A1:2009 + A2:2013 |

Mounting

| | |
|---------------|-----------------|
| Mounting type | DIN rail: 35 mm |
|---------------|-----------------|

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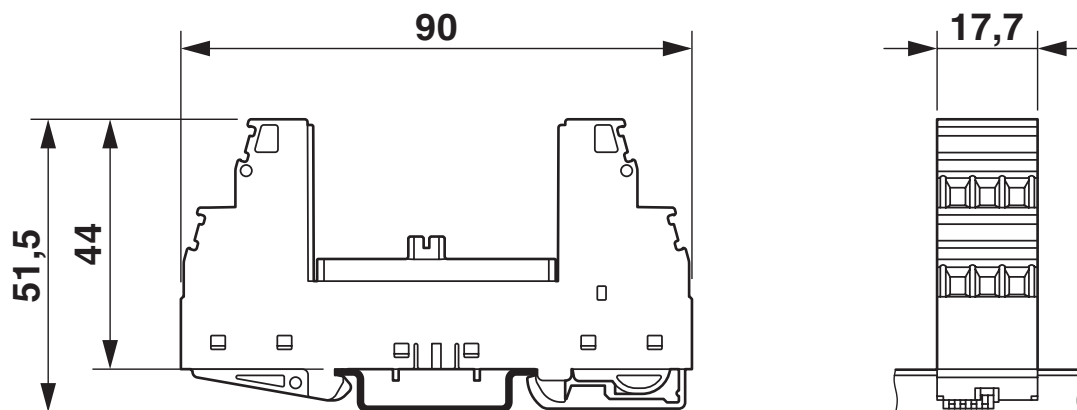
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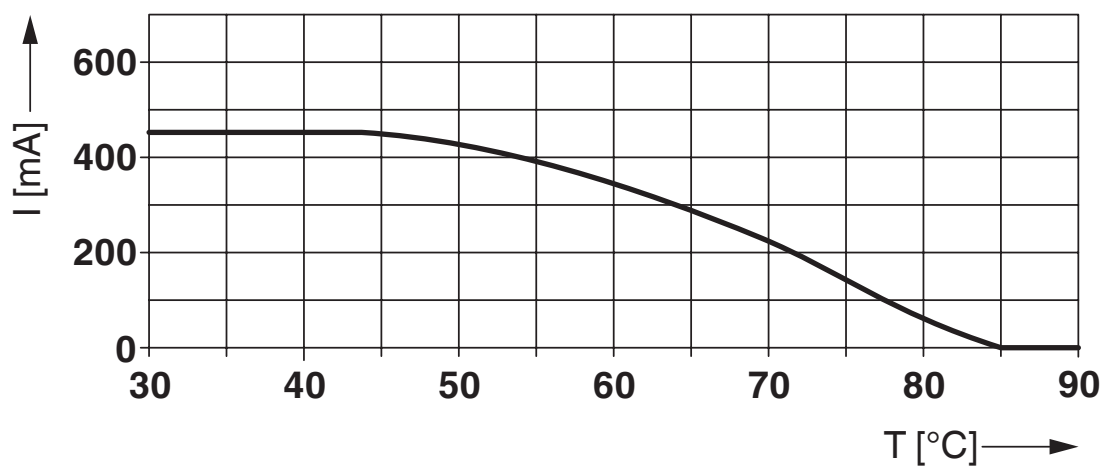


Drawings

Dimensional drawing



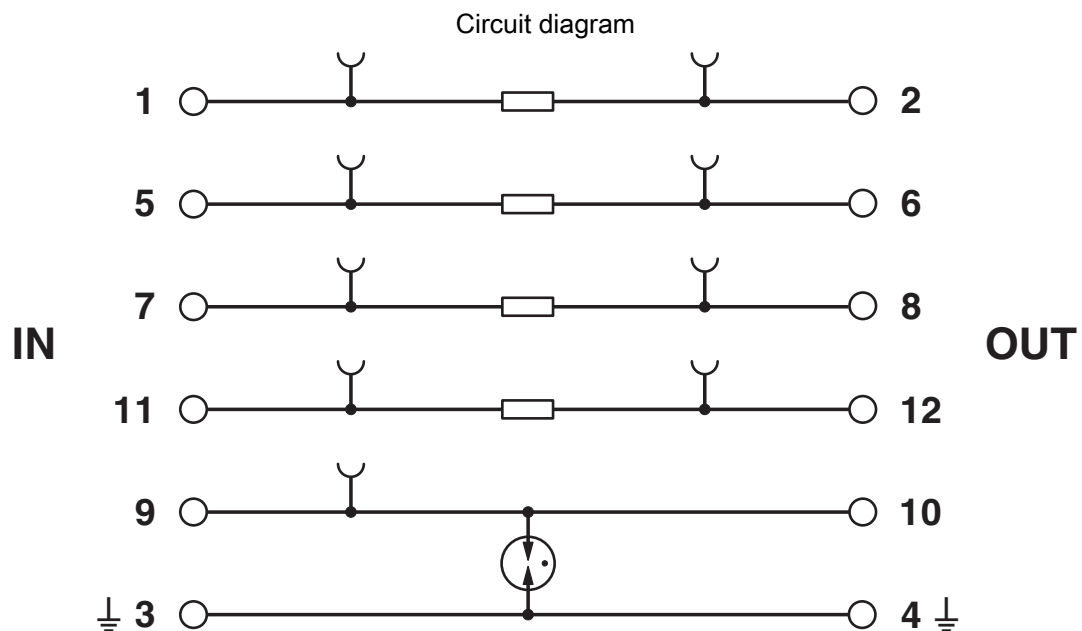
Diagram



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

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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2839224>



DNV GL

Approval ID: TAE00001N6



UL Listed

Approval ID: FILE E 138168



cUL Listed

Approval ID: FILE E 333250



UL Listed

Approval ID: FILE E 333250

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27171592 |
| ECLASS-15.0 | 27171592 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002497 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121600 |
|-------------|----------|

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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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