

# PT-BE/FM - Type 3 surge protection base element



2839282

<https://www.phoenixcontact.com/pc/products/2839282>

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Base element for protective plug PT, 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
- Easy integration into the control room via floating remote indication contact

## Commercial data

|                                      |                     |
|--------------------------------------|---------------------|
| Item number                          | 2839282             |
| Packing unit                         | 10 pc               |
| Minimum order quantity               | 1 pc                |
| Product key                          | CL1411              |
| Catalog page                         | Page 138 (C-4-2019) |
| GTIN                                 | 4017918182502       |
| Weight per piece (including packing) | 48.703 g            |
| Weight per piece (excluding packing) | 45.91 g             |
| Customs tariff number                | 85363010            |
| Country of origin                    | DE                  |

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## Technical data

### Product properties

|                                |                                 |
|--------------------------------|---------------------------------|
| Product type                   | Base element                    |
| IEC power supply system        | TN-S<br>TT                      |
| Type                           | Base element, DIN rail mounting |
| Number of positions            | 3                               |
| Surge protection fault message | Remote indication contact       |

### Insulation characteristics

|                         |           |
|-------------------------|-----------|
| Overvoltage category    | III       |
| Pollution degree        | 2         |
| IEC test classification | III<br>T3 |
| EN type                 | T3        |
| Number of ports         | One       |

### Electrical properties

#### Indicator/remote signaling

|                    |                                |
|--------------------|--------------------------------|
| Connection name    | Remote fault indicator contact |
| Switching function | N/C contact                    |

### Connection data

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection method                | Screw connection                            |
| Screw thread                     | M3                                          |
| Tightening torque                | 0.8 Nm                                      |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross section rigid    | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>   |
| Conductor cross section AWG      | 24 ... 12                                   |

### Dimensions

|                        |                                                                                      |
|------------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing    |  |
| Width                  | 17.7 mm                                                                              |
| Height                 | 90 mm                                                                                |
| Depth                  | 51.2 mm                                                                              |
| Horizontal pitch       | 1 Div.                                                                               |
| Complete module width  | 17.7 mm                                                                              |
| Complete module height | 90 mm                                                                                |
| Complete module depth  | 65.5 mm                                                                              |

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## Material specifications

|                                        |                  |
|----------------------------------------|------------------|
| Color                                  | black (RAL 9005) |
| Flammability rating according to UL 94 | V-0              |
| CTI value of material                  | 600              |
| Insulating material                    | PA 6.6-FR        |
| Material group                         | I                |
| Housing material                       | PA 6.6-FR        |

## Mechanical properties

### Mechanical data

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

## Protective circuit

|                                         |                          |
|-----------------------------------------|--------------------------|
| Nominal voltage $U_N$                   | 230 V AC (TN-S)          |
|                                         | 230 V AC (TT)            |
| Nominal frequency $f_N$                 | 50 Hz (60 Hz)            |
| Maximum continuous voltage $U_C$        | 264 V AC                 |
| Rated load current $I_L$                | 26 A (30 °C)             |
| Short-circuit current rating $I_{SCCR}$ | 1.5 kA AC                |
| Max. backup fuse with branch wiring     | depends on the plug used |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                                           |
|-----------------------------------------|-------------------------------------------|
| Degree of protection                    | IP20                                      |
| Ambient temperature (operation)         | -40 °C ... 80 °C                          |
| Ambient temperature (storage/transport) | -40 °C ... 80 °C                          |
| Altitude                                | ≤ 2000 m (amsl)                           |
| Permissible humidity (operation)        | 5 % ... 95 %                              |
| Shock (operation)                       | 30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)   |
| Vibration (operation)                   | 5g (10 ... 150 Hz/20 cycles/axis/X, Y, Z) |

## Standards and regulations

|                          |              |
|--------------------------|--------------|
| Standards/specifications | IEC 61643-11 |
| Note                     | 2011         |
| Standards/specifications | EN 61643-11  |
| Note                     | 2012         |

## Mounting

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

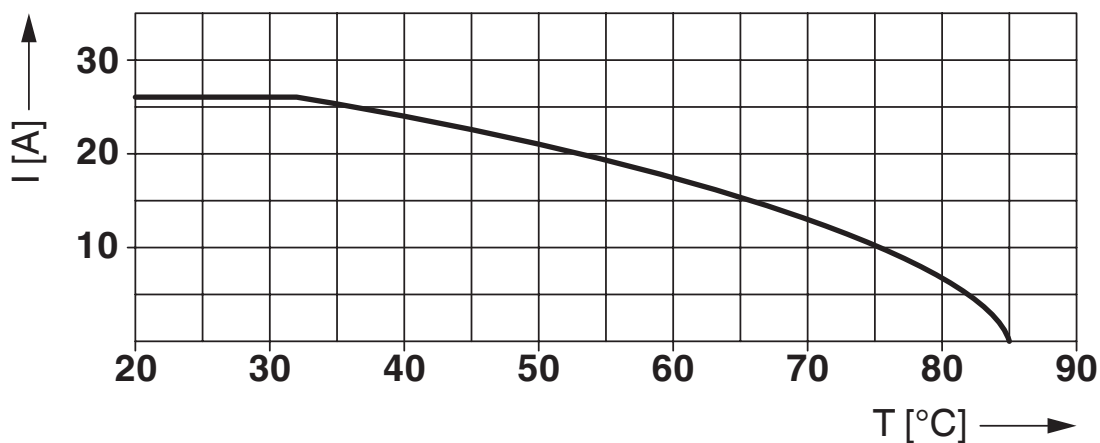
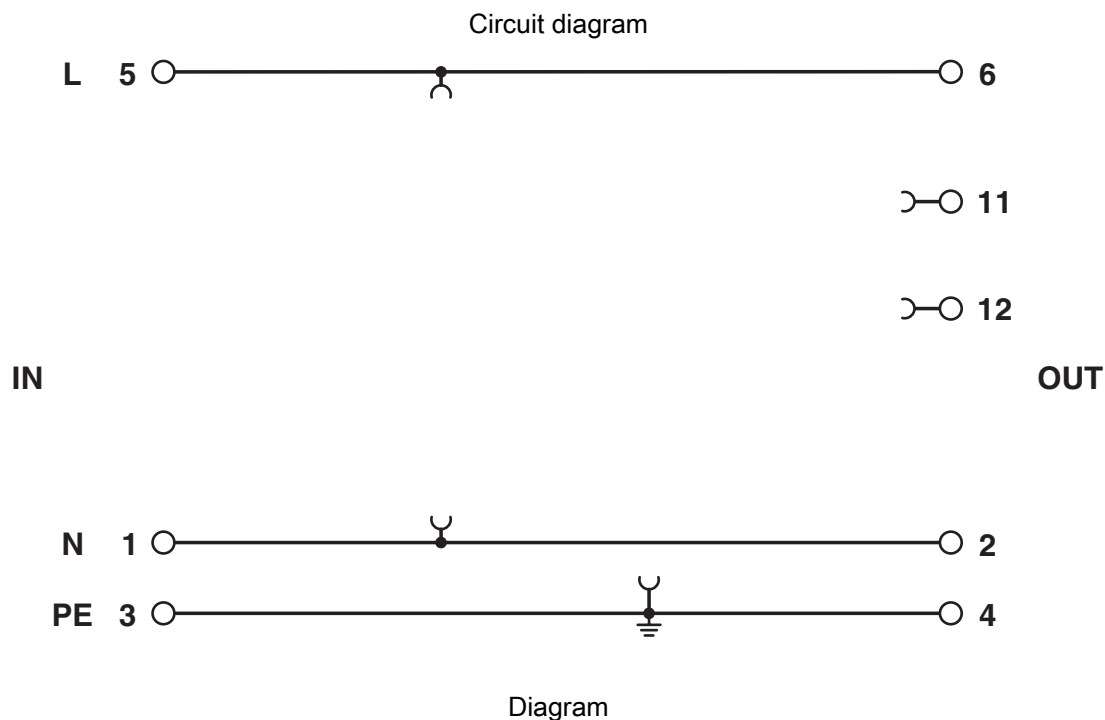
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## Drawings



Nominal current depending on ambient temperature

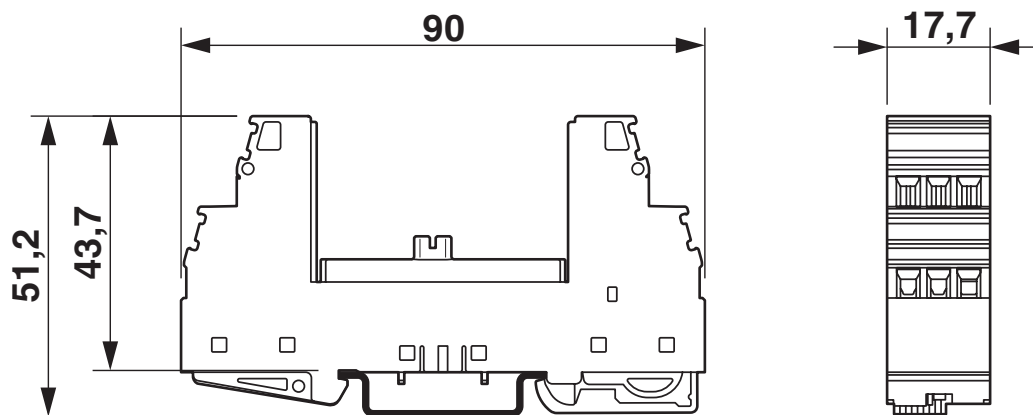
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Dimensional drawing



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27130803 |
| ECLASS-13.0 | 27171501 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001625 |
|----------|----------|

### 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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## Accessories

### ZBF 5:UNBEDRUCKT - Zack Marker strip, flat

0808642

<https://www.phoenixcontact.com/pc/products/0808642>



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5 mm, lettering field size: 5.1 x 5.2 mm, Number of individual labels: 10

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### ZB 5 :UNBEDRUCKT - Zack marker strip

1050004

<https://www.phoenixcontact.com/pc/products/1050004>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 5.1 x 10.5 mm, Number of individual labels: 10



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## ZB 5,LGS:FORTL.ZAHLEN - Zack marker strip

1050017

<https://www.phoenixcontact.com/pc/products/1050017>



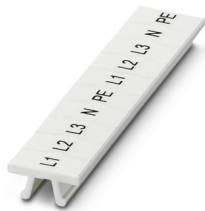
Zack marker strip, Strip, white, labeled, printed horizontally: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 491 ... 500, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 5.15 x 10.5 mm, Number of individual labels: 10

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## ZB 5,LGS:L1-N,PE - Zack marker strip

1050415

<https://www.phoenixcontact.com/pc/products/1050415>



Zack marker strip, Strip, white, labeled, horizontal: L1, L2, L3, N, PE, L1, L2, L3, N, PE, mounting type: snapped, for terminal block width: 5.2 mm, lettering field size: 5.15 x 10.5 mm, Number of individual labels: 10

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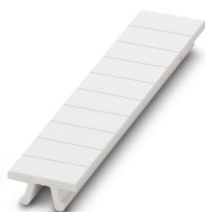
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## ZB 5,8:UNBEDRUCKT - Zack marker strip

2715209

<https://www.phoenixcontact.com/pc/products/2715209>



Zack marker strip, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 5.8 mm, lettering field size: 5.75 x 10.5 mm, Number of individual labels: 10

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## SSA 3-6 - Shield connection

2839295

<https://www.phoenixcontact.com/pc/products/2839295>



Shield fast connection for 3 ... 6 mm cable diameter. Potential connecting cable: 200 mm, 1 mm<sup>2</sup>, color: black

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## SSA 5-10 - Shield connection

2839512

<https://www.phoenixcontact.com/pc/products/2839512>



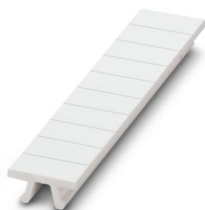
Shield fast connection for 5 ... 10 mm cable diameter. Potential connecting cable: 200 mm, 1 mm<sup>2</sup>, color: black

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## ZB 5,8 CUS - Zack marker strip

0824965

<https://www.phoenixcontact.com/pc/products/0824965>



Zack marker strip, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into tall marker groove, for terminal block width: 5.8 mm, lettering field size: 5.75 x 10.5 mm, Number of individual labels: 10

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## PT 2X1-VF-230AC-ST - Surge protection plug

2921365

<https://www.phoenixcontact.com/pc/products/2921365>



Protective connector with protective circuit free of leakage current for two floating signals. Connection in series, consisting of varistor and gas-filled surge arrester between signal wires and ground.

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## PT 2X1VA- 60AC-ST - Surge protection plug

2839172

<https://www.phoenixcontact.com/pc/products/2839172>



Protective plug PT with protective circuit for higher signal voltages, 2-channel, visual error display. Nominal voltage: 60 V AC

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## PT 2X1VA-120AC-ST - Surge protection plug

2839185

<https://www.phoenixcontact.com/pc/products/2839185>



Protective plug PT with protective circuit for higher signal voltages, 2-channel, visual error warning. Nominal voltage: 120 V AC

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## PT 2X1VA-230AC-ST - Surge protection plug

2839198

<https://www.phoenixcontact.com/pc/products/2839198>



Protective plug PT with protective circuit for higher signal voltages, 2-channel, visual error warning. Nominal voltage: 230 V AC

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## PT 2-F-ST - Surge protection plug

2859000

<https://www.phoenixcontact.com/pc/products/2859000>



Surge protection plug for the base element, surge voltage coarse protection for two signal lines grounded on one side.

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## PLT-T3-IT-230-P - Type 3 surge protection plug

2906451

<https://www.phoenixcontact.com/pc/products/2906451>



Replacement plug for device protection in IT systems from the PLUGTRAB product series. 230 V nominal voltage.

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## PT 2+1-S-48DC-ST - Type 3 surge protection plug

2839648

<https://www.phoenixcontact.com/pc/products/2839648>



Protective plug PT with device surge protection for power supply units, visual error display. Nominal voltage: 48 V AC

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## SZS 0,6X3,5 VDE - Screwdriver

1212602

<https://www.phoenixcontact.com/pc/products/1212602>



Screwdriver, slot-headed, VDE insulated, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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