

## Surge protection device - TT-PI-TB - 2858373

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Basic terminal block, with isolating connector, test connections and surge protection, mounting on NS 35/7.5

### Key commercial data

|                                      |          |
|--------------------------------------|----------|
| Packing unit                         | 1 pc     |
| Weight per Piece (excluding packing) | 99.0 GRM |
| Custom tariff number                 | 85363010 |
| Country of origin                    | Germany  |

### Technical data

#### Dimensions

|        |          |
|--------|----------|
| Height | 144.7 mm |
| Width  | 12.35 mm |
| Depth  | 84.5 mm  |

#### Ambient conditions

|                                 |                  |
|---------------------------------|------------------|
| Ambient temperature (operation) | -40 °C ... 85 °C |
| Degree of protection            | IP20             |

#### General

|                                          |                               |
|------------------------------------------|-------------------------------|
| Housing material                         | PBT                           |
| Inflammability class according to UL 94  | V2                            |
| Color                                    | black                         |
| Standards for air and creepage distances | VDE 0110-1                    |
|                                          | IEC 60664-1                   |
| Mounting type                            | DIN rail: 35 mm               |
| Type                                     | PI basic terminal block       |
| Number of positions                      | 2                             |
| Direction of action                      | Line-Line & Line-Earth Ground |

#### Protective circuit

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## Technical data

### Protective circuit

|                                                                        |                                        |
|------------------------------------------------------------------------|----------------------------------------|
| IEC test classification                                                | C1                                     |
|                                                                        | C2                                     |
|                                                                        | C3                                     |
|                                                                        | D1                                     |
| Nominal voltage $U_N$                                                  | 24 V AC                                |
| Maximum continuous operating voltage $U_C$                             | 45 V DC                                |
|                                                                        | 31 V AC                                |
| Maximum continuous voltage $U_C$ (wire-ground)                         | 45 V DC                                |
|                                                                        | 31 V AC                                |
| Nominal current $I_N$                                                  | 250 mA (40°C)                          |
| Operating effective current $I_C$ at $U_C$                             | $\leq 5 \mu A$                         |
| Residual current $I_{PE}$                                              | $\leq 2 \mu A$                         |
| Nominal discharge current $I_n$ (8/20) $\mu s$ (Core-Core)             | 5 kA                                   |
| Nominal discharge current $I_n$ (8/20) $\mu s$ (Core-Earth)            | 5 kA                                   |
| Total surge current (8/20) $\mu s$                                     | 10 kA                                  |
| Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (Core-Core)    | 5 kA                                   |
| Max. discharge current $I_{max}$ (8/20) $\mu s$ maximum (Core-Earth)   | 5 kA                                   |
| Nominal pulse current $I_{an}$ (10/1000) $\mu s$ (Core-Core)           | 100 A                                  |
| Nominal pulse current $I_{an}$ (10/1000) $\mu s$ (Core-Earth)          | 100 A                                  |
| Impulse discharge current (10/350) $\mu s$ , peak value $I_{imp}$      | 1 kA                                   |
| Output voltage limitation at 1 kV/ $\mu s$ (Core-Core) spike           | $\leq 90 V$                            |
| Output voltage limitation at 1 kV/ $\mu s$ (Core-Earth) spike          | $\leq 650 V$                           |
| Output voltage limitation at 1 kV/ $\mu s$ (Core-Core) static          | $\leq 70 V$                            |
| Residual voltage at $I_n$ , (conductor-conductor)                      | $\leq 45 V$                            |
| Residual voltage with $I_{an}$ (10/1000) $\mu s$ (conductor-conductor) | $\leq 70 V$                            |
| Voltage protection level $U_P$ (Core-Core)                             | $\leq 110 V$ (C2 (10 kV/5 kA))         |
| Voltage protection level $U_P$ (Core-Earth)                            | $\leq 650 V$ (C2 (10 kV/5 kA))         |
| Response time $t_A$ (Core-Core)                                        | $\leq 1 ns$                            |
| Response time $t_A$ (Core-Earth)                                       | $\leq 100 ns$                          |
| Input attenuation aE, sym.                                             | 1 dB ( $\leq 1 MHz / 50 \Omega$ )      |
|                                                                        | 0.3 dB ( $\leq 150 kHz / 150 \Omega$ ) |
| Cut-off frequency $f_g$ (3 dB), sym. in 50 Ohm system                  | typ. 6 MHz                             |
| Cut-off frequency $f_g$ (3 dB), sym. in 150 Ohm system                 | typ. 2 MHz                             |
| Resistance in series                                                   | 4.7 $\Omega \pm 10 \%$                 |
|                                                                        | 4.7 $\Omega$                           |
| Surge protection fault message                                         | None                                   |

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#### Protective circuit

|                                                |                 |
|------------------------------------------------|-----------------|
| Surge current resistance (conductor-conductor) | C2 - 10 kV/5 kA |
| Surge current resistance (conductor-ground)    | C2 - 10 kV/5 kA |
|                                                | D1 (500 A)      |

#### Connection data

|                                        |                       |
|----------------------------------------|-----------------------|
| Connection method                      | Screw connection      |
| Connection type IN                     | Screw terminal blocks |
| Connection type OUT                    | Screw terminal blocks |
| Conductor cross section stranded min.  | 0.2 mm <sup>2</sup>   |
| Conductor cross section stranded max.  | 2.5 mm <sup>2</sup>   |
| Conductor cross section solid min.     | 0.2 mm <sup>2</sup>   |
| Conductor cross section solid max.     | 2.5 mm <sup>2</sup>   |
| Conductor cross section AWG/kcmil min. | 24                    |
| Conductor cross section AWG/kcmil max  | 14                    |

#### Standards and Regulations

|                       |              |
|-----------------------|--------------|
| Standards/regulations | IEC 61643-21 |
|                       | EN 50020     |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27140201 |
| eCl@ss 4.1 | 27130801 |
| eCl@ss 5.0 | 27130801 |
| eCl@ss 5.1 | 27130801 |
| eCl@ss 6.0 | 27130807 |
| eCl@ss 7.0 | 27130807 |
| eCl@ss 8.0 | 27130807 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000943 |
| ETIM 3.0 | EC000943 |
| ETIM 4.0 | EC000943 |
| ETIM 5.0 | EC000943 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30212010 |
| UNSPSC 7.0901 | 39121610 |



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## Classifications

### UNSPSC

|              |          |
|--------------|----------|
| UNSPSC 11    | 39121610 |
| UNSPSC 12.01 | 39121610 |
| UNSPSC 13.2  | 39121620 |

## Approvals

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GOST / GOST

### Ex Approvals

### Approvals submitted

## Approval details

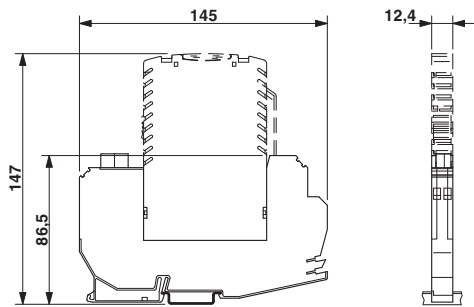
GOST

GOST

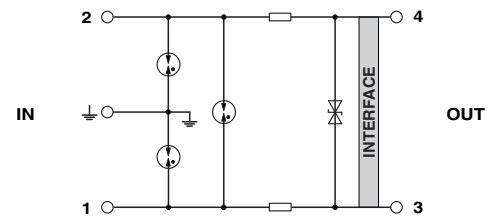
## Drawings

## Surge protection device - TT-PI-TB - 2858373

Dimensioned drawing



Circuit diagram



单击下面可查看定价，库存，交付和生命周期等信息

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