

1464188  
<https://www.phoenixcontact.com/gb/products/1464188>

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Surge protection with status indicator for analog and digital telecommunications interfaces (VDSL up to 250 Mbps, G.fast up to 1.5 Gbps) in a surface-mounted housing. Alternatively, it can be snapped onto a DIN rail. Integrated overload protection (power-cross). Connection: RJ45 (RJ12) and push-in.

Your advantages

- Easy installation in cabinets and on the wall with screw mounting or by snapping it onto a DIN rail
- Precise function monitoring with the status indicator on the device
- No restriction of data transmission even at high speeds
- Tests by Deutsche Telekom confirm compatibility with VDSL, vectoring VDSL, super-vectoring VDSL (SVVDSL), and G.fast
- Safe response in the event of overload (power-cross) due to an integrated disconnect mechanism and electronic current limiter

Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1464188       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | CL3221        |
| Product key                          | CL3221        |
| GTIN                                 | 4063151856779 |
| Weight per piece (including packing) | 113.9 g       |
| Weight per piece (excluding packing) | 111.8 g       |
| Customs tariff number                | 85363030      |
| Country of origin                    | DE            |

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## Technical data

### Product properties

|                         |                                             |
|-------------------------|---------------------------------------------|
| Product type            | Surge protection for information technology |
| Product family          | DATATRAB                                    |
| IEC test classification | B2                                          |
|                         | C1                                          |
|                         | C2                                          |
|                         | C3                                          |
|                         | D1                                          |
| Type                    | DIN rail module, one-piece                  |

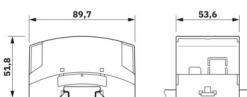
### Insulation characteristics

|                      |                             |
|----------------------|-----------------------------|
| Overvoltage category | III ( $\leq 2000$ m (amsl)) |
|                      | II ( $\leq 4000$ m amsl)    |
| Pollution degree     | 2                           |

### Connection data

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| Connection method                | Push-in connection                          |
| Conductor cross section flexible | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section rigid    | 0.2 mm <sup>2</sup> ... 1.5 mm <sup>2</sup> |
| Conductor cross section AWG      | 24 ... 16                                   |

### Dimensions

|                     |                                                                                      |
|---------------------|--------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Width               | 53.6 mm                                                                              |
| Height              | 89.7 mm                                                                              |
| Depth               | 51.8 mm                                                                              |

### Material specifications

|                                        |                  |
|----------------------------------------|------------------|
| Color                                  | gray (RAL 7042)  |
|                                        | black (RAL 9005) |
| Flammability rating according to UL 94 | V-0              |
| Insulating material                    | PC               |
| Housing material                       | PC               |

### Mechanical properties

#### Mechanical data

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

### Protective circuit

# DT-TELE-WM-RJ45-PT-I - Surge protection device



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|                                                                 |                                               |
|-----------------------------------------------------------------|-----------------------------------------------|
| Maximum continuous voltage $U_C$                                | 60 V DC                                       |
| Rated current                                                   | 200 mA (30 V DC, 70 °C)                       |
|                                                                 | 100 mA (> 30 V DC)                            |
| Operating effective current $I_C$ at $U_C$                      | $\leq 1 \mu A$                                |
| Residual current $I_{pE}$                                       | $\leq 1 \mu A$                                |
| Nominal discharge current $I_n$ (8/20) $\mu s$ (line-line)      | 5 kA (Terminal)                               |
| Nominal discharge current $I_n$ (8/20) $\mu s$ (line-ground)    | 10 kA (Terminal)                              |
| Pulse discharge current $I_{imp}$ (10/350) $\mu s$ (line-earth) | 1.5 kA (Terminal)                             |
| Total discharge current $I_{Total}$ (8/20) $\mu s$              | 12 kA (Terminal)                              |
| Voltage protection level $U_p$ (line-line)                      | $\leq 1.3$ kV (B2 - 4 kV / 100 A)             |
|                                                                 | $\leq 1.4$ kV (C1 - 2 kV / 1 kA)              |
|                                                                 | $\leq 1.4$ kV (C2 - 10 kV / 5 kA)             |
|                                                                 | $\leq 1$ kV (C3 - 15 A)                       |
| Voltage protection level $U_p$ (line-earth)                     | $\leq 0.8$ kV (B2 - 4 kV / 100 A)             |
|                                                                 | $\leq 950$ V (C1 - 2 kV / 1 kA)               |
|                                                                 | $\leq 950$ kV (C2 - 10 kV / 5 kA)             |
|                                                                 | $\leq 0.9$ kV (C3 - 15 A)                     |
|                                                                 | $\leq 1.05$ kV (C3 - 100 A)                   |
| Response time $t_A$ (line-line)                                 | $\leq 100$ ns                                 |
| Response time $t_A$ (line-earth)                                | $\leq 100$ ns                                 |
| Input attenuation aE, sym.                                      | typ. 1 dB ( $\leq 40$ MHz/150 $\Omega$ )      |
| Cut-off frequency $f_g$ (3 dB), sym. in 150 $\Omega$ system     | typ. 100 MHz                                  |
| Capacity (Core-Core)                                            | typ. 10 pF                                    |
| Resistance per path                                             | 6 $\Omega$                                    |
| Surge protection fault message                                  | optical                                       |
| Impulse durability (line-line)                                  | B2 - 4 kV / 100 A                             |
|                                                                 | C1 - 2 kV / 1 kA                              |
|                                                                 | C2 - 10 kV / 5 kA, terminal                   |
|                                                                 | C2 - 3 kV / 1.5 kA, RJ45                      |
|                                                                 | C3 - 100 A                                    |
| Impulse durability (line-earth)                                 | B2 - 4 kV / 100 A                             |
|                                                                 | C1 - 2 kV / 1 kA                              |
|                                                                 | C2 - 10 kV / 5 kA, terminal                   |
|                                                                 | C2 - 3 kV / 1.5 kA, RJ45                      |
|                                                                 | C3 - 100 A                                    |
|                                                                 | D1 - 1,5 kA, Terminal                         |
|                                                                 | D1 - 500 A, RJ45                              |
| Pulse reset time (line-line)                                    | $\leq 10$ ms ( $U_c = 30$ V, $I_L = 200$ mA)  |
|                                                                 | $\leq 50$ ms ( $U_c = 60$ V, $I_L = 100$ mA)  |
| Pulse reset time (line-earth)                                   | $\leq 10$ ms ( $U_c = 30$ V, $I_L = 200$ mA)  |
|                                                                 | $\leq 100$ ms ( $U_c = 60$ V, $I_L = 100$ mA) |

Environmental and real-life conditions

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## Ambient conditions

|                                         |                  |
|-----------------------------------------|------------------|
| Degree of protection                    | IP20             |
| Ambient temperature (operation)         | -40 °C ... 85 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Altitude                                | ≤ 4000 m (amsl)  |
| Permissible humidity (operation)        | 5 % ... 95 %     |

## Standards and regulations

|                          |                                                       |
|--------------------------|-------------------------------------------------------|
| Standards/specifications | IEC 61643-21                                          |
| Note                     | 2000 + corrigendum 2001 + A1:2008, modified + A2:2012 |

## EN 61643-21

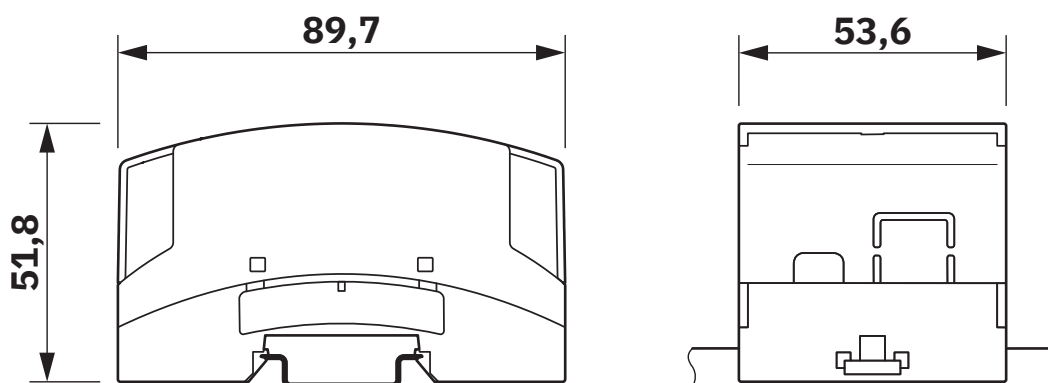
|                          |                          |
|--------------------------|--------------------------|
| Standards/specifications | EN 61643-21              |
| Note                     | 2001 + A1:2009 + A2:2013 |

## Mounting

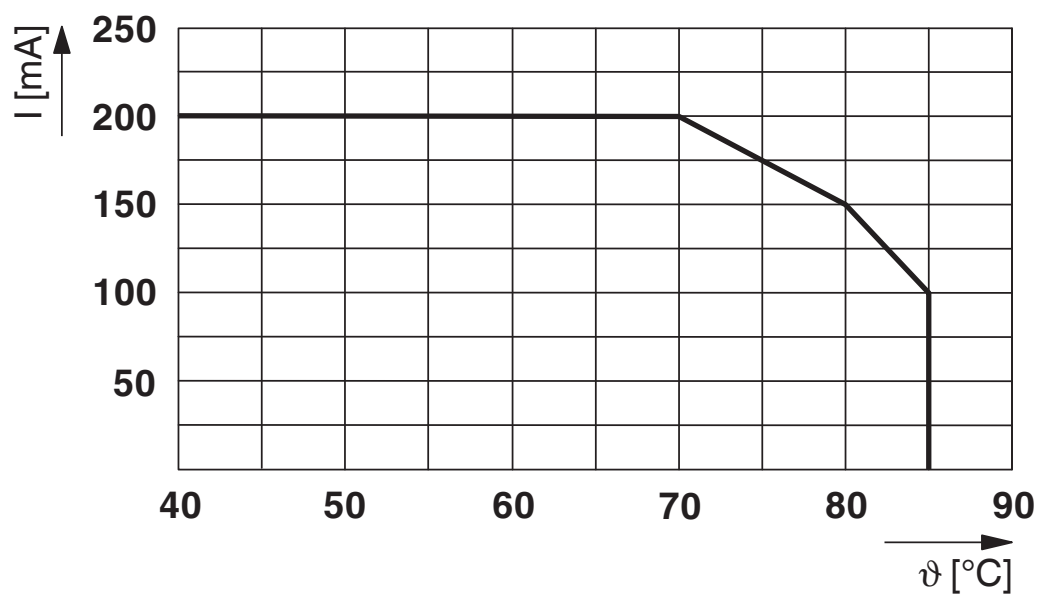
|               |                          |
|---------------|--------------------------|
| Mounting type | DIN rail: TH 35 - 7.5 mm |
|---------------|--------------------------|

## Drawings

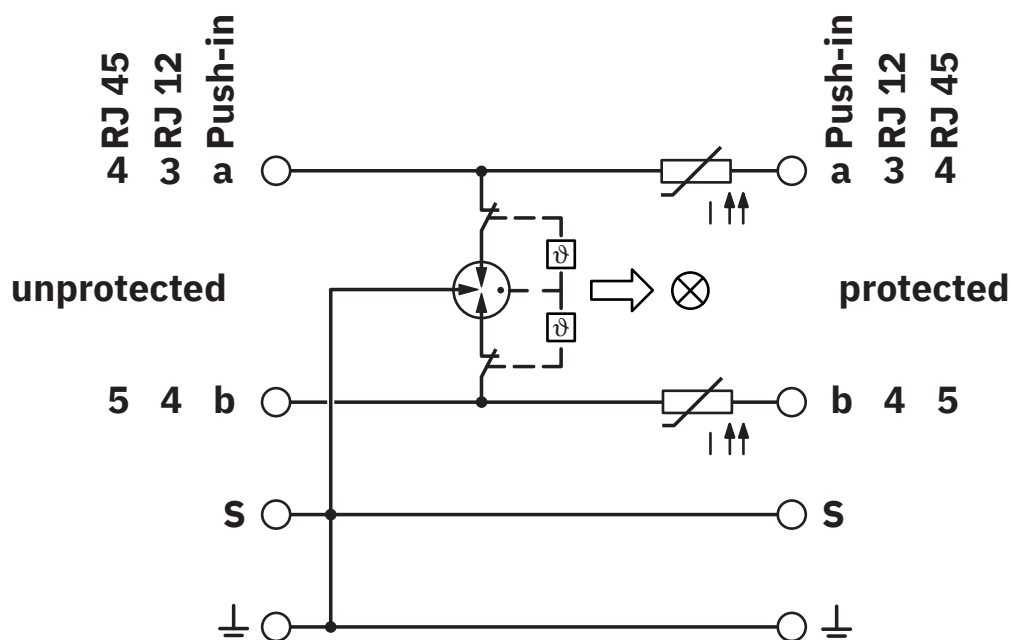
Dimensional drawing



Diagram



Circuit diagram



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27171503 |
|-------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC000943 |
|----------|----------|

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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.)     | Perfluorobutane sulfonic acid (PFBS) and its salts(CAS: n/a) |

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