

1466731

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Type 2 surge protection plug for VAL-SPP base element, thermally monitored, optical red/green status indicator.

### Your advantages

- · Easy and safe installation with forward-thinking handling and safety features
- · Reliable system protection with maximum performance and endurance
- · Can be used in a wide range of applications due to the optimized design and broad portfolio
- · Simple planning due to comprehensive digital data and selectors

#### Commercial data

| Item number                          | 1466731       |
|--------------------------------------|---------------|
| Packing unit                         | 10 pc         |
| Minimum order quantity               | 1 pc          |
| Product key                          | CL138Z        |
| GTIN                                 | 4063151862213 |
| Weight per piece (including packing) | 39.17 g       |
| Weight per piece (excluding packing) | 35.5 g        |
| Country of origin                    | DE            |



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### Technical data

#### Notes

| General |  |
|---------|--|
| Note    | Only for use in IT systems between L-PE if the exposed conductive parts of the equipment of the low-voltage electrical installation are connected to the grounding system of the |
|         | metaliation are composed to the grounding eyetem of the  |

RE = RA according to VDE 0100-442:2013, Figure 44.A1 and Table 44.A1

transformer station (common grounding of the HV transformer station and the exposed conductive part of the LV load system).

### Product properties

| Product type                   | Replacement plug |
|--------------------------------|------------------|
| Product family                 | VAL-SPP          |
| IEC test classification        | II               |
|                                | T2               |
| EN type                        | T2               |
| IEC power supply system        | IT               |
| Туре                           | Male             |
| Number of positions            | 1                |
| Surge protection fault message | optical          |
| Insulation characteristics     |                  |

| Overvoltage category | III |
|----------------------|-----|
| Pollution degree     | 3   |

### Electrical properties

| Nominal frequency f <sub>N</sub> | 50 Hz (60 Hz) |
|----------------------------------|---------------|

#### Connection data

#### Dimensions

| Dimensional drawing | 54.2<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>50 |
|---------------------|---|
| Width               | 17.5 mm   |
| Height              | 54.2 mm   |
| Depth               | 61.5 mm   |
| Horizontal pitch    | 1 Div.  |



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### Material specifications

| Color                                  | light gray (RAL 7035) |
|--|-----------------------|
| Flammability rating according to UL 94 | V-0                   |
| CTI value of material                  | 600                   |
| Insulating material                    | PA 6.6-FR 20 % GF     |
| Material group                         | 1                     |
| Housing material                       | PA 6.6-FR 20 % GF     |

#### Protective circuit

| Mode of protection                                   | L-PE (only in series connection with item 1466090 VAL-SPP-T2-750-P)                |
|--|--|
| Nominal voltage U <sub>N</sub>                       | 800 V AC ±10 % (IT - only in series connection with item 1466090 VAL-SPP-T2-750-P) |
| Nominal frequency f <sub>N</sub>                     | 50 Hz (60 Hz)  |
| Maximum continuous voltage U <sub>C</sub>            | 880 V AC   |
| Residual current I <sub>PE</sub>                     | ≤ 5 µA   |
| Standby power consumption $P_{\mathbb{C}}$           | ≤ 1.5 mVA  |
| Nominal discharge current I <sub>n</sub> (8/20) µs   | 20 kA  |
| Maximum discharge current I <sub>max</sub> (8/20) μs | 40 kA  |
| Voltage protection level U <sub>p</sub>              | ≤ 4.5 kV   |
| Front of wave sparkover voltage at 6 kV (1.2/50) µs  | ≤ 4.5 kV   |
| Response time t <sub>A</sub>                         | ≤ 100 ns   |

#### Environmental and real-life conditions

### Ambient conditions

| Degree of protection                    | IP20C (Installed)                       |
|---|---|
| Ambient temperature (operation)         | -40 °C 85 °C                            |
| Ambient temperature (storage/transport) | -40 °C 85 °C                            |
| Ambient temperature (assembly)          | -5 °C 50 °C                             |
| Altitude                                | ≤ 5000 m (amsl)                         |
| Permissible humidity (operation)        | 5 % 95 %                                |
| Shock (operation)                       | 25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z) |
| Vibration (operation)                   | 5g (10 500 Hz / 2.5 h / X, Y, Z)        |

### Standards and regulations

| Standards/specifications | IEC 61643-11    |
|--------------------------|-----------------|
| Note                     | 2011            |
| Standards/specifications | EN 61643-11     |
| Note                     | 2012 + A11:2018 |

### Mounting

| Mounting type | on base element |
|---------------|-----------------|

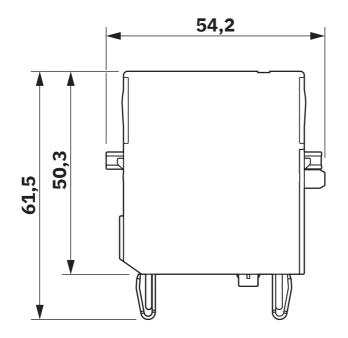


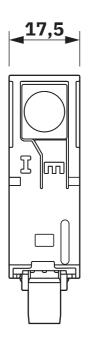
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## Drawings

### Dimensional drawing





Circuit diagram





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### **Approvals**

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**IECEE CB Scheme** 

Approval ID: NL-109184

CCA

Approval ID: NTR NL-8052



**KEMA-KEUR** 

Approval ID: 71-138153 REV.2



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## Classifications

#### **ECLASS**

| ECLASS-11.0 | 27130890 |  |
|-------------|----------|--|
| ECLASS-13.0 | 27171202 |  |
| TIM         |          |  |

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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

VAL-SPP-T2-BE-3+0/4DU-UT - Type 2 surge protection base element

1468171

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Base element for type 2/Class II arresters from the VALVETRAB SPP product family. Version for 3-phase power supply networks with combined routing of PE and N in one conductor (4-conductor system: L1, L2, L3, PEN).

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