

VSPC BASE 1CL R**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Base element for the pluggable VSPC arrester, integrated PE foot in impedance-neutral VSPC BASE. Can safely discharge up to 20 kA (8/20 μ s) and 2.5 kA (10/350 μ s) to the PE.

General ordering data

| | |
|------------|---|
| Version | Surge protection, Flange-mounted housing, Flange-mounted housing |
| Order No. | 8951730000 |
| Type | VSPC BASE 1CL R |
| GTIN (EAN) | 4032248742974 |
| Qty. | 1 pc(s). |

Creation date March 1, 2023 12:20:06 PM CET

Catalogue status 18.02.2023 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|------------|
| Depth | 69 mm | Depth (inches) | 2.717 inch |
| Height | 98 mm | Height (inches) | 3.858 inch |
| Width | 17.8 mm | Width (inches) | 0.701 inch |
| Net weight | 68 g | | |

Temperatures

| | | | |
|-----------------------------|----------------|-----------------------------|----------------|
| Storage temperature | -40 °C...80 °C | Operating temperature | -40 °C...70 °C |
| Operating temperature, min. | -40 °C | Operating temperature, max. | 70 °C |
| Humidity | 5...96 % | | |

Rated data UL

| | | | |
|----------------------|---------|----------------|---------------------|
| Certificate No. (UL) | E311081 | UL certificate | UL 497b Certificate |
|----------------------|---------|----------------|---------------------|

Connection data, remote alert

| | | | |
|--|---------------------|--|---------------------|
| Connection type | Screw connection | Cross-section for connected wire, solid core, max. | 1.5 mm ² |
| Cross-section for connected wire, solid core, min. | 0.5 mm ² | Max. torque | 0.2 Nm |
| Stripping length | 6 mm | | |

CSA protection data

| | | | |
|--|------|------------------------------------|--------|
| Gas group C | IIB | Gas group D | IIA |
| Gas groups A, B | IIC | Input current, max. I _I | 450 mA |
| Internal inductance, max. L _I | 0 µH | | |

General data

| | | | |
|---------------------------|--------------------|-------------------|---------------------------------------|
| Colour | black | Design | Terminal, miscellaneous |
| Optical function display | No | Protection degree | IP20 |
| Rail | TS 35, TS 35 x 7.5 | Segment | Measurement - Monitoring - Setting |
| UL 94 flammability rating | V-0 | Version | Flange-mounted housing |

Insulation coordination acc. to EN 50178

| | | | |
|--------------------|---|------------------------|-----|
| Pollution severity | 2 | Surge voltage category | III |
|--------------------|---|------------------------|-----|

Rated data IEC / EN

| | | | |
|------------------------------|---|--------------------|--|
| Rated current I _N | 450 mA | Signalling contact | U _N 250 V AC 0.1 A 1CO at VSPC R with VSPC control unit |
| Standards | IEC 61643-2-1, IEC 62305, DIN EN 60079-0:2009, DIN EN 60079-11:2007, DIN EN 60079-26:2007, DIN EN 61241-11:2006 | Voltage type | AC/DC |

Further details of approvals

| | |
|------------------|-----------------|
| GOST certificate | GOST-Zertifikat |
|------------------|-----------------|

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Connection data

| | | | |
|--|---------------------|--|---------------------|
| Stripping length | 7 mm | Type of connection | Screw connection |
| Stripping length, rated connection | 7 mm | Tightening torque, min. | 0.5 Nm |
| Tightening torque, max. | 0.8 Nm | Clamping range, min. | 0.5 mm ² |
| Clamping range, max. | 4 mm ² | Wire cross-section, solid, min. | 0.5 mm ² |
| Wire cross-section, solid, max. | 4 mm ² | Wire connection cross section, finely stranded, max. | 2.5 mm ² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.5 mm ² | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 2.5 mm ² |
| Connection cross-section, stranded, min. | 0.5 mm ² | Connection cross-section, stranded, max. | 2.5 mm ² |
| Blade size | 0.6 x 3.5 mm | | |

Ratings IECEx/ATEX/cUL

| | |
|-----------------|-----------------|
| cUL certificate | cUL Certificate |
|-----------------|-----------------|

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000472 | ETIM 7.0 | EC000472 |
| ETIM 8.0 | EC000472 | ECLASS 9.0 | 27-13-08-03 |
| ECLASS 9.1 | 27-13-08-07 | ECLASS 10.0 | 27-13-08-03 |
| ECLASS 11.0 | 27-13-08-03 | ECLASS 12.0 | 27-17-15-91 |

Tender specification sheets

| | | | |
|--------------------|---|---------------------|---|
| Long specification | <p>Base element with remote monitoring option to receive a protected plug with status display for one floating-ground powered paired cable. With optional remote monitoring.</p> <p>With the installation of the base element a contact is established between mounting rail and protected plug.</p> <p>Mechanical coding of the base element to the protected plug according to switching type and rated voltage. The base unit is coded itself by the first insertion of a protected plug. Mechanical coding of the base element to the protected plug according to switching type and rated voltage. The base unit is coded itself by the first insertion of a protected plug. Optical identification of the protected plug based on the type of protected switching and the voltage level. Possible to mark all terminals</p> | Short specification | <p>Base element with remote monitoring option to receive a protected plug with status display for one floating-ground powered paired cable, direct contact of the plug protection circuit to the earth potential. With optional remote monitoring</p> |
|--------------------|---|---------------------|---|

Data sheet

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Technical data

Environmental Product Compliance

| | |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 5047b468-d57a-4a1c-8363-2ff1629067e4 |

Approvals

Approvals



| | |
|-----------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (UL) | E311081 |

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | SIL Paper EU Konformitätserklärung / EU Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| Engineering Data | WSCAD, Zuken E3.S |
| User Documentation | Beipackzettel / Instruction sheet |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

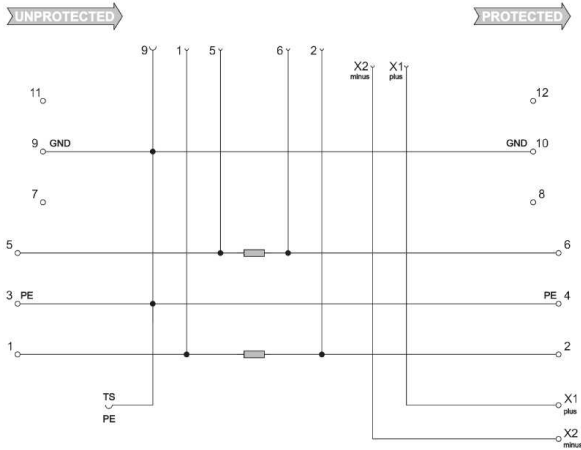
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Drawings

Electric symbol



Circuit diagram

| Category | Testing pulse | Surge voltage | Surge current | Pulse | Type |
|----------|-------------------|---------------------------|----------------------------|-------|---|
| C1 | Quick-rising edge | 0.5 - 2 kV with 1.2/50 µs | 0.25 - 1 kA mit 8/20 µs | 300 | Surge voltage arrester |
| C2 | Quick-rising edge | 2 - 10 kV with 1.2/50 µs | 1 - 5 kA mit 8/20 µs | 10 | Surge voltage arrester |
| C3 | Quick-rising edge | ≥ 1 kV with 1 kV/µs | 10 - 100 A mit 10/10000 µs | 300 | Surge voltage arrester |
| D1 | High power | ≥ 1 kV | 0.5 - 2.5 kA mit 10/350 µs | 2 | Arrester for lightning current and surge voltages |

Discharge capacity