

VSPC MOV 2CH 230V

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



- Pluggable arrester with ungrounded varistors (MOV) for use as protection circuit for coils
- For applications as surge protection, external wire links to GND must be connected at the VSPC BASE FG (e.g. connection 8-10 and 9-5)
- Pluggable arrester, with no-interrupt and impedance-neutral plug-in and pull-out
- Can be tested with the V-TEST testing device
- Integrated PE foot in the VSPC BASE, safely discharges up to 20 kA (8/20 μ s) and 2.5 kA (10/350 μ s) to PE

General ordering data

| | |
|------------|---|
| Version | Surge protection for instrumentation and control, without warning function / function indicator |
| Order No. | 8924610000 |
| Type | VSPC MOV 2CH 230V |
| GTIN (EAN) | 4032248696253 |
| Qty. | 1 pc(s). |

Creation date May 19, 2022 11:59:57 AM CEST

Catalogue status 06.05.2022 / 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 | 90 mm | Height (inches) | 3.543 inch |
| Width | 17.8 mm | Width (inches) | 0.701 inch |
| Net weight | 44 g | | |

Temperatures

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

Probability of failure

| | | | |
|-----------|-------------|------------------------------------|-------|
| SIL PAPER | SIL Paper | SIL in compliance with IEC 61508 | 3 |
| MTTF | 4,391 Years | SFF | 100 % |
| λges | 26 | PFH in 1*10 ⁻⁹ per hour | 0 |

Environmental Product Compliance

| | |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

Rated data UL

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

CSA protection data

| | | | |
|--|------|------------------------------------|-------|
| Gas group C | IIB | Gas group D | IIA |
| Gas groups A, B | IIC | Input voltage, max. U _i | 385 V |
| Internal inductance, max. L _i | 0 μH | | |

General data

| | | | |
|--------------------------|--|---------------------------|-------------------------|
| Colour | orange | Design | Terminal, miscellaneous |
| Optical function display | No | Protection degree | IP20 |
| Segment | Measurement - Monitoring - Setting | UL 94 flammability rating | V-0 |
| Version | without warning function / function indicator | | |

Insulation coordination acc. to EN 50178

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

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Technical data

Rated data IEC / EN

| | | | |
|---|----------------------|--|-----------------------|
| Capacitance | 720 pF | Discharge current I_{max} (8/20 μ s) GND-PE | 1.5 kA |
| Discharge current I_{max} (8/20 μ s) wire-wire | 1.5 kA | Discharge current I_n (8/20 μ s) GND-PE | 0.5 kA |
| Discharge current I_n (8/20 μ s) wire-PE | 2.5 kA | Discharge current I_n (8/20 μ s) wire-wire | 0.2 kA |
| Fuse | 10A | Lightning test current, I_{imp} (10/350 μ s) GND-PE | 0.5 kA |
| Lightning test current, I_{imp} (10/350 μ s) wire-wire | 0.2 kA | Max. continuous voltage, U_c (AC) | 275 V |
| Max. continuous voltage, U_c (DC) | 350 V | Number of poles | 1 |
| Overload - failure mode | Mode 1 | Protection level on output side Wire-wire 1 kV/ μ s, typically | 600 V |
| Protection level on output side Wire-wire 8/20 μ s, typically | 700 V | Protection level, U_p wire - wire | 850 V |
| Rated current I_N | 10 A | Rated voltage (AC) | 230 V |
| Rated voltage (DC) | 230 V | Requirements category acc. to IEC 61643-21 | C1, C2, C3, D1 |
| Signalling contact | No | Standards | IEC 61643-21 |
| Surge current-carrying capacity C1 | < 1 kA 8/20 μ s | Surge current-carrying capacity C2 | 1.5 kA 8/20 μ s |
| Surge current-carrying capacity C3 | 50 A 10/1000 μ s | Surge current-carrying capacity D1 | 0.5 kA 10/350 μ s |
| Voltage type | AC/DC | Volume resistance | 0.20 Ω |

Further details of approvals

GOST certificate GOST-Zertifikat

Connection data

Type of connection Pluggable in VSPC BASE

Ratings IECEx/ATEX/cUL

cUL certificate cUL Certificate

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000943 | ETIM 7.0 | EC000943 |
| ETIM 8.0 | EC000943 | ECLASS 9.0 | 27-13-08-07 |
| ECLASS 9.1 | 27-13-08-07 | ECLASS 10.0 | 27-13-08-07 |
| ECLASS 11.0 | 27-13-08-07 | ECLASS 12.0 | 27-17-90-90 |

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Technical data

Tender specification sheets

| Long specification | | Short specification |
|--------------------|---|--|
| | <p>Surge protection plug for base element VSPC BASE 2/4CH, common mode voltage protection for two paired cables. Version: 230 V AC Single-stage protective circuitry in plug, consisting of varistor protection between the signal wires. Mechanical identification of the plug to the base element according to the switching type and rated voltage. Protected plug with coding pin and counter-profile for the base element. Optical identification of the protected plug based on the type of protected switching and the voltage level. It is possible to mark the plug.</p> | <p>Surge protection plug for base element VSPC BASE 2/4CH, common mode voltage protection for two paired cables. Version: 230 V AC</p> |

Important note

| | |
|---------------------|--|
| Product information | External wire bridges must be used for connection to PE. Mode 1: State where the voltage-limiting part of the SPD was disconnected. The voltage limiting function is no longer available, but the cable is still functional. |
|---------------------|--|

Approvals

Approvals



| | |
|-----------------------|---------|
| ROHS | Conform |
| UL File Number Search | E311081 |

Downloads

| | |
|---|--|
| Approval/Certificate/Document of Conformity | SIL Paper EU_Konformitätserklärung / EU_Declaration_of_Conformity |
| Engineering Data | CAD data – STEP |
| Engineering Data | EPLAN, WSCAD |
| User Documentation | Beipackzettel / Instruction sheet Beipackzettel / Instruction sheet |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

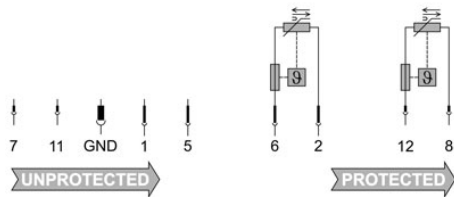
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Drawings

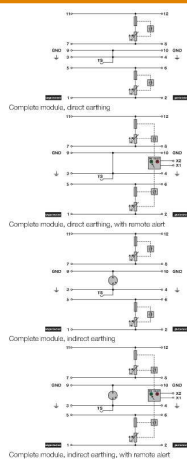
Electric symbol



Similar to illustration

| Cate- gory | Testing pulse | Surge voltage | Surge current | Pulse | Type |
|------------|-------------------|---------------------------|----------------------------------|-------|---|
| C1 | Quick-rising edge | 0.5 - 2 kV 1.2/50 µs | 0.25 - 1 kA mit 8/20 µs | 300 | Surge voltage arrester |
| C2 | Quick-rising edge | 2 - 10 kV 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



Komplettmodul