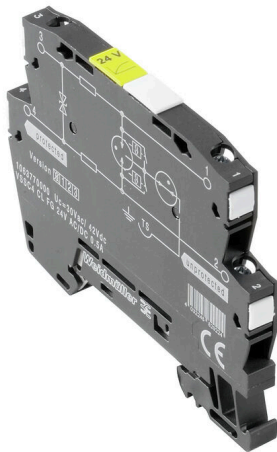


VSSC4 CL FG24VAC/DC0.5A

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



Overvoltage coupling along the conductor path may disturb or destroy sensitive signal inputs. It is important to provide protection in the immediate vicinity of I&C devices. Weidmüller's broad product range for the I&C sector offers products in a 2-piece, pluggable design and modular terminals for tension clamp or screw connection. These products are suitable for both binary and analogue signals. Weidmüller also offers other designs with integrated components such as gas discharge tubes or varistors. VARITECTOR stands for flexible and variable surge protection by Weidmüller, tested according to product standard IEC61643-21. The VARITECTOR series can be used in applications according to IEC 61643-22 / VDE 0845-3 for classes C1, C2, C3 and D1. The VARITECTOR SPC, SSC and MCZ OVP product families optimally combine electrical and mechanical properties. Size and easy handling play an important role. This surge protection is suited for confined spaces in industrial and process automation as well as in building automation applications.

General ordering data

| | |
|------------|---|
| Version | Surge protection for instrumentation and control, Surge protection for measurement and control, UP(L/N-PE) ≤ 1500 V |
| Order No. | 1063770000 |
| Type | VSSC4 CL FG24VAC/DC0.5A |
| GTIN (EAN) | 4032248829224 |
| Qty. | 10 items |

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (UL) E311081

Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 58.5 mm | Depth (inches) | 2.3031 inch |
| Height | 76 mm | Height (inches) | 2.9921 inch |
| Width | 6.2 mm | Width (inches) | 0.2441 inch |
| Net weight | 27.4 g | | |

Temperatures

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

Probability of failure

| | | | |
|------------------------------------|---------|------|--------|
| SIL in compliance with IEC 61508 | 3 | MTTF | 3936 a |
| SFF | 93.28 % | λges | 29 |
| PFH in 1*10 ⁻⁹ per hour | 1.95 | | |

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 7a, 7cl |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 71e97bb7-979f-4330-94c0-20c629bb05e3 |

Rated data UL

| | | | |
|----------------------|---------|----------------|--|
| Certificate No. (UL) | E311081 | UL certificate | UL Zertifikat - PDF/ E311081VOL1SEC3.pdf (application/pdf) |
|----------------------|---------|----------------|--|

CSA protection data

| | | | |
|------------------------------|--------|----------------------------|------|
| Gas group D | IIA | Gas groups A, B | IIC |
| Input-current, max. II | 500 mA | Gas group C | IIB |
| Internal inductance, max. LI | 0 μH | Internal capacity, max. CI | 1 nF |
| Input voltage, max. Ui | 42 V | | |

General data

| | | | |
|---------------------------|---|---------------|---------------------------------------|
| Optical function display | No | Segment | Measurement - Monitoring - Setting |
| Version | Surge protection for measurement and control | Design | Terminal |
| UL 94 flammability rating | V-0 | Colour | black |
| Protection degree | IP20 | Mounting rail | TS 35 |
| Isolating function | No | | |

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Technical data

Insulation coordination acc. to EN 50178

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

Rated data IEC / EN

| | | | |
|--|----------------------------------|--|-----------------|
| Number of poles | 1 | Rated voltage (AC) | 24 V |
| Rated voltage (DC) | 34 V | Rated current I _N | 500 mA |
| Protection level UP (typ.) | ≤ 1500 V | Voltage type | AC/DC |
| Fuse protection | 0.5 A | Volume resistance | 1.8 Ω 10 % |
| Standards | IEC 61643-21, HART-compatible | Lightning test current I _{imp} (10/350 μs) | 0.5 kA |
| Discharge current, max. (8/20 μs) | 10 kA | Dielectric strength at FG against PE | ≥ 500 V |
| Requirements category acc. to IEC 61643-21 | C2, C3, D1 | Insertion loss | 3.45 MHz |
| Max. continuous voltage, U _c (AC) | 30 V | Max. continuous voltage, U _c (DC) | 42 V |
| Surge current-carrying capacity D1 | 0.5 kA 10/350 μs | Surge current-carrying capacity C3 | 50 A 10/1000 μs |
| Pulse-reset capacity | ≤ 20 ms | Signal transmission properties (-3 dB) | 3.4 MHz |
| Lightning test current, I _{imp} (10/350 μs) Wire-PE | 0.5 kA | Overload - failure mode | Modus 2 |
| Discharge current I _n (8/20 μs) wire-wire | 2.5 kA | Discharge current I _n (8/20 μs) wire-PE | 2.5 kA |
| Discharge current I _{max} (8/20 μs) wire-PE5 kA | | Discharge current I _{max} (8/20 μs) wire-wire | 5 kA |
| Surge current-carrying capacity C2 | 2.5 kA 8/20 μs 5 kV 1.2/50 μs | | |

Further details of approvals

| | |
|------------------|--|
| GOST certificate | GOST-Zertifikat - PDF/7950_n1-n4.pdf (application/pdf) |
|------------------|--|

Connection data

| | | | |
|--|---------------------|--|-------------------|
| Stripping length | 10 mm | Type of connection | Screw connection |
| 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. | 6 mm ² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.5 mm ² | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 4 mm ² |
| Connection cross-section, stranded, min. 0.5 mm ² | | Connection cross-section, stranded, max. | 4 mm ² |

Electrical data

| | |
|--------------|-------|
| Voltage type | AC/DC |
|--------------|-------|

General data

| | | | |
|-----------------|-------|-------------------|------|
| Number of poles | 1 | Protection degree | IP20 |
| Colour | black | | |

Ratings IECEx/ATEX/cUL

| | |
|-----------------|--|
| cUL certificate | cUL Certificate - pdf/VSSC.PDF (application/pdf) |
|-----------------|--|

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Technical data

Important note

Product information Mode 2: State where the voltage-limiting part of the SPD was short-circuited due to a very low impedance within the SPD. The line is inoperable, but the measuring equipment is still protected by means of a short-circuit.

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC000943 | ETIM 9.0 | EC000943 |
| ETIM 10.0 | EC000943 | ECLASS 14.0 | 27-17-15-01 |
| ECLASS 15.0 | 27-17-15-01 | | |

Tender specification sheets

| | | | |
|---------------------------|--|----------------------------|--|
| Long specification | Surge protection in a one piece, 6.2 mm wide DIN rail module for a floating-ground driven signal circuit with 24 V DC, 2-wire technology. A current loop with max. 0.5 A can be protected here. When the terminal is fitted, there is a simultaneous sparkover gap created to the high-impedance earth between the mounting rail (earth) and the reference potential (ground) of the protective switch. Optical identification of the terminal based on the type of protected switching and the voltage level. The terminal can be labelled or marked. | Short specification | Surge protection in a one piece, 6.2 mm wide DIN rail module for a floating-ground driven signal circuit with 2-wire technology. Version: 24V DC |
|---------------------------|--|----------------------------|--|

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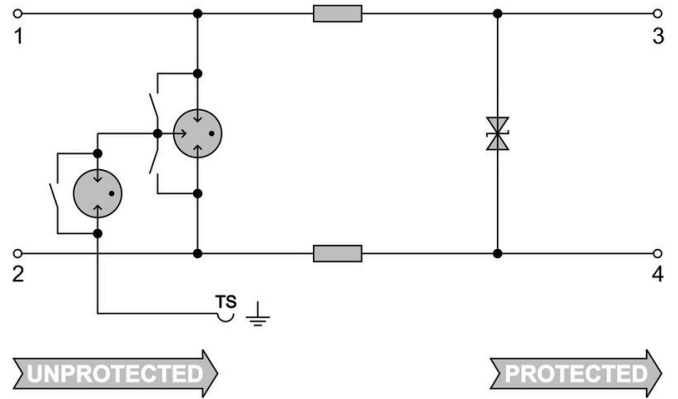
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Drawings



Similar to illustration



Circuit diagram

