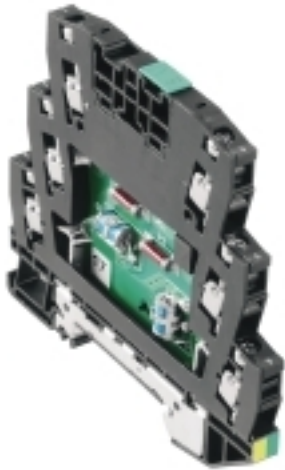


VSSC6 CL FG 12VDC 0.5A**Weidmüller Interface GmbH & Co. KG**

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, U _p (L/N-PE) 1600 V |
| Order No. | 1064260000 |
| Type | VSSC6 CL FG 12VDC 0.5A |
| GTIN (EAN) | 4032248829620 |
| Qty. | 10 pc(s). |

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Technical data**Dimensions and weights**

| | | | |
|------------|---------|-----------------|------------|
| Depth | 81 mm | Depth (inches) | 3.189 inch |
| Height | 88.5 mm | Height (inches) | 3.484 inch |
| Width | 6.2 mm | Width (inches) | 0.244 inch |
| Net weight | 41.2 g | | |

Temperatures

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

Probability of failure

| | | | |
|------------------------------------|---------|------|---------|
| SIL in compliance with IEC 61508 | 3 | MTTF | 3,936 a |
| SFF | 93.28 % | λges | 29 |
| PFH in 1*10 ⁻⁹ per hour | 1.95 | | |

Rated data UL

| | | | |
|----------------------|---------|----------------|---------------|
| Certificate No. (UL) | E311081 | UL certificate | UL Zertifikat |
|----------------------|---------|----------------|---------------|

CSA protection data

| | | | |
|--|------|--|--------|
| Gas group C | IIB | Gas group D | IIA |
| Gas groups A, B | IIC | Input current, max. I _I | 500 mA |
| Input voltage, max. U _i | 15 V | Internal capacity, max. C _I | 1 nF |
| Internal inductance, max. L _I | 0 μH | | |

General data

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

Insulation coordination acc. to EN 50178

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

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Technical data

Rated data IEC / EN

| | | | |
|---|-------------------------------|--|------------|
| Dielectric strength at FG against PE | ≥ 500 V | Discharge current I_{\max} (8/20μs) wire-PE | 5 kA |
| Discharge current I_{\max} (8/20μs) wire-wire | 5 kA | Discharge current I_n (8/20μs) wire-PE | 2.5 kA |
| Discharge current I_n (8/20μs) wire-wire | 2.5 kA | Discharge current, max. (8/20 μs) | 10 kA |
| Fuse | 0.5 A | Insertion loss | 250 MHz |
| Lightning test current I_{imp} (10/350 μs) | 0.5 kA | Lightning test current, I_{imp} (10/350 μs) | 0.5 kA |
| Max. continuous voltage, U_c (DC) | 15 V | Wire-PE | 0.5 kA |
| Overload - failure mode | Modus 2 | Number of poles | 1 |
| Protection level on output side Wire-wire | 30 V | Protection level U_p (typ.) | 1600 V |
| 1 kV/μs, typically | 30 V | Protection level, U_p GND - PE | 800 V |
| Protection level, U_p wire - wire | 35 V | Pulse-reset capacity | ≤ 20 ms |
| Rated current I_N | 500 mA | Rated voltage (DC) | 12 V |
| Requirements category acc. to IEC 61643-21 | C2, C3, D1 | Signal transmission properties (-3 dB) | ≤ 700 kHz |
| Standards | IEC 61643-21, HART-compatible | Surge current-carrying capacity C2 | 2.5 kA |
| Surge current-carrying capacity C3 | 50 A | Surge current-carrying capacity D1 | 0.5 kA |
| Voltage type | DC | Volume resistance | 1.8 Ω 10 % |

Further details of approvals

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

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 |

Ratings IECEx/ATEX/cUL

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

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000943 | ETIM 7.0 | EC000943 |
| ETIM 8.0 | EC000943 | ETIM 9.0 | 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 | ECLASS 13.0 | 27-17-90-90 |
| ECLASS 14.0 | 27-17-90-90 | | |

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Technical data

Tender specification sheets

Long specification

Surge protection in a one piece, 6.2 mm wide DIN rail module for a float-ing-ground driven signal circuit with 12 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 float-ing-ground driven signal circuit with 2-wire technology and a potential-free earth cable. Version: 12V DC

Environmental Product Compliance

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

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.

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 |
| User Documentation | Beipackzettel / Instruction sheet |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

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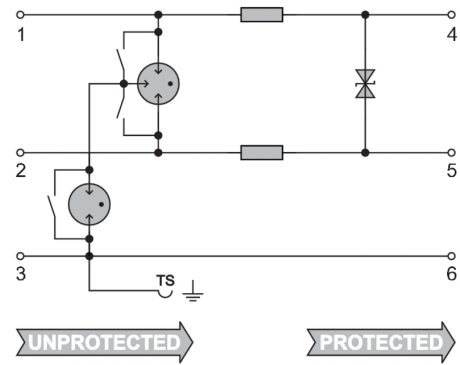
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Drawings



Similar to illustration



Circuit diagram



VSSC6 CL FG 12VDC 0.5A

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Accessories

Blank



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | DEK 5/5 MC NE WS | Version |
| Order No. | 1609801044 | Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4008190397111 | Weidmueller, white |
| Qty. | 1,000 pc(s). | |

SnapMark



SnapMark - this tag carrier has been developed specifically for the I-series double-level terminal IDK 1.5N. The flexible pivot mechanism allows cross-connections to be easily installed or removed. It can hold four DEK 5 labelling tags or two WS 10/5 Middle connector markers.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | SNAPMARK I | Version |
| Order No. | 1805880000 | Group markers, Terminal marker, 23 x 5 mm, Pitch in mm (P): 5.00 |
| GTIN (EAN) | 4032248273614 | Weidmueller, white |
| Qty. | 50 pc(s). | |

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www.weidmueller.com**Accessories****Accessories (end plates)**

End plates (AP) for the VSSC product series in light blue and black

**General ordering data**

| | | |
|------------|----------------------------|-----------------|
| Type | AP VSSC6 | Version |
| Order No. | 1063110000 | VSSC, End plate |
| GTIN (EAN) | 4032248947553 | |
| Qty. | 50 pc(s). | |