

## Lightning and surge protection VSSC6 CL 24VAC/DC 0.5A

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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

|            |  |
|------------|--|
| Type       | VSSC6 CL 24VAC/DC 0.5A   |
| Order No.  | <a href="#">1064170000</a>   |
| Version    | Surge protection for instrumentation and control, 24 V, 34 V, 500 mA, IEC 61643-21 |
| GTIN (EAN) | 4032248829552  |
| Qty.       | 10 pc(s).  |

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**Technical data****Dimensions and weights**

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Width      | 6.2 mm  | Width (inches)  | 0.244 inch |
| Height     | 88.5 mm | Height (inches) | 3.484 inch |
| Depth      | 81 mm   | Depth (inches)  | 3.189 inch |
| Net weight | 40.6 g  |                 |            |

**Temperatures**

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

**Probability of failure**

|                                    |      |      |             |
|------------------------------------|------|------|-------------|
| λges                               | 19   | MTTF | 6,008 Years |
| PFH in 1*10 <sup>-9</sup> per hour | 1.95 | SFF  | 89.74 %     |
| SIL in compliance with IEC 61508   | 2    |      |             |

**PA53 IPProtection level**

|  |       |  |      |
|--|-------|--|------|
| Protection level, U <sub>p</sub> wire - PE | 900 V | Protection level, U <sub>p</sub> wire - wire | 90 V |
|--|-------|--|------|

**CSA protection data**

|  |      |  |        |
|--|------|--|--------|
| Gas group C                              | IIB  | Gas group D                            | IIA    |
| Gas groups A, B                          | IIC  | Input current, max. I <sub>i</sub>     | 500 mA |
| Input voltage, max. U <sub>i</sub>       | 42 V | Internal capacity, max. C <sub>i</sub> | 1 nF   |
| Internal inductance, max. L <sub>i</sub> | 0 μH |  |        |

**General data**

|                           |       |                          |                             |
|---------------------------|-------|--------------------------|-----------------------------|
| Colour                    | Black | Isolating function       | No                          |
| Mounting rail             | TS 35 | Optical function display | No                          |
| Protection degree         | IP20  | Segment                  | Instrumentation and Control |
| UL 94 flammability rating | V-0   |                          |                             |

**Insulation coordination acc. to EN 50178**

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

**Interference voltage**

|   |       |  |       |
|---|-------|--|-------|
| Protection level U <sub>p</sub> (typ.)                          | 900 V | Protection level on output side Wire-PE<br>1kV/μs, typically | 900 V |
| Protection level on output side Wire-wire<br>1 kV/μs, typically | 70 V  |  |       |

**Protective elements**

|                          |    |
|--------------------------|----|
| Optical function display | No |
|--------------------------|----|

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### Technical data

#### Rated data IEC / EN

|  |               |  |                   |
|--|---------------|--|-------------------|
| Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE | 5 kA          | Discharge current $I_{max}$ (8/20 $\mu$ s) wire-wire       | 5 kA              |
| Discharge current $I_n$ (8/20 $\mu$ s) wire-PE     | 2.5 kA        | Discharge current $I_n$ (8/20 $\mu$ s) wire-wire           | 2.5 kA            |
| Discharge current, max. (8/20 $\mu$ s)             | 10 kA         | Fuse   | 0.5 A             |
| Humidity   | 5...96 %      | Insertion loss   | 250 MHz           |
| Lightning test current $I_{imp}$ (10/350 $\mu$ s)  | 0.5 kA        | Lightning test current, $I_{imp}$ (10/350 $\mu$ s) Wire-PE | 0.5 kA            |
| Max. continuous voltage, $U_c$ (AC)                | 30 V          | Max. continuous voltage, $U_c$ (DC)                        | 42 V              |
| Overload - failure mode                            | Modus 2       | Protection level $U_p$ (typ.)                              | 900 V             |
| Pulse-reset capacity                               | $\leq$ 170 ms | Rated current $I_N$  | 500 mA            |
| Rated voltage (AC)                                 | 24 V          | Rated voltage (DC)   | 34 V              |
| Requirements category acc. to IEC 61643-21         | C2, C3, D1    | Signal transmission properties (-3 dB)                     | 3.4 MHz           |
| Standards  | IEC 61643-21  | 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                                       | AC/DC         | Volume resistance  | 1.8 $\Omega$ 10 % |

#### Further details of approvals

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

#### Connection data

|   |  |   |                     |
|---|--|---|---------------------|
| Type of connection  | Screw connection, Torx <sup>®</sup> T15, Slotted 0.8 x 4 | Tightening torque, min.   | 0.5 Nm              |
| Tightening torque, max.   | 0.8 Nm   | Clamping range, rated connection, min.                          | 0.5 mm <sup>2</sup> |
| Clamping range, rated connection, max.                          | 4 mm <sup>2</sup>  | Wire cross-section, solid, min.                                 | 0.5 mm <sup>2</sup> |
| Wire cross-section, solid, max.                                 | 6 mm <sup>2</sup>  | Conductor cross-section, flexible, AEH (DIN 46228-1), min.      | 0.5 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max.      | 4 mm <sup>2</sup>  | Wire connection cross section, stranded, rated connection, min. | 0.5 mm <sup>2</sup> |
| Wire connection cross section, stranded, rated connection, max. | 4 mm <sup>2</sup>  |   |                     |

#### Rated data UL

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

#### Ratings IECEx/ATEX/cUL

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

#### Classifications

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC000943    | ETIM 4.0   | EC000381    |
| ETIM 5.0   | EC000943    | ETIM 6.0   | EC000943    |
| UNSPSC     | 30-21-19-21 | eClass 5.1 | 27-13-08-01 |
| eClass 6.2 | 27-13-08-02 | eClass 7.1 | 27-13-08-09 |
| eClass 8.1 | 27-13-08-11 | eClass 9.0 | 27-13-08-11 |

#### Product information

|                                |   |
|--------------------------------|---|
| Descriptive text ordering data | End plate AP VSSC6 1063110000   |
| Descriptive text accessories   | Screwdrivers: Torx <sup>®</sup> 9009170000 Slot 0.8x4.0 9008340000 EMC Set: 1067470000 Marker: WS10/6 1818400000; DEK 6 0468560000; DEK 5 1768260000; SNAPMARK 1805880000 |

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**Data sheet**

**Lightning and surge protection  
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**Technical data**

**Approvals**

Approvals



ROHS Conform

**Probability of failure**

SIL PAPER [SIL Paper](#)  
[3-D model](#)

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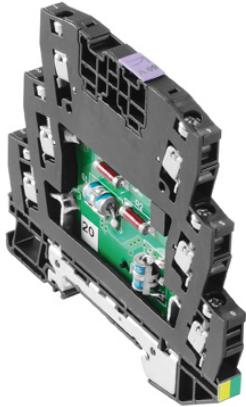
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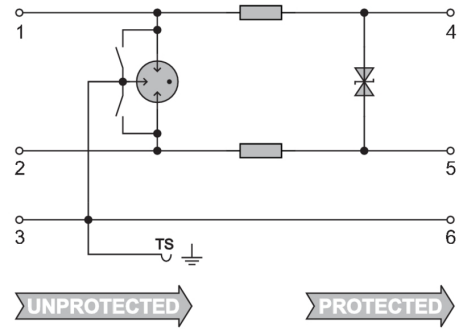
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**Drawings**



Similar to illustration



Circuit diagram



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