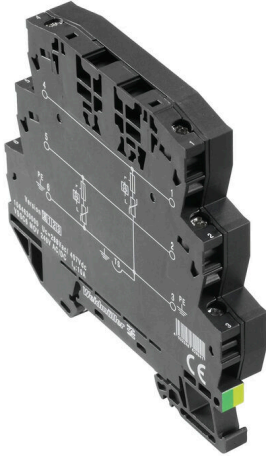


## VSSC6 MOV 120VAC/DC

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

[www.weidmueller.com](http://www.weidmueller.com)



Similar to illustration

Overvoltage protection with individual components with varistors in terminal design

The metal-oxide varistors can be used in terminal design. They are approved for a maximum sine-wave-form power-frequency operating voltage, which is printed on the component. Any voltages greater than the permitted maximum are discharged safely within 25 ns. Varistors are used for medium to high power.

### General ordering data

|            |   |
|------------|---|
| Version    | Surge protection for instrumentation and control,<br>Surge protection for measurement and control |
| Order No.  | <a href="#">1064610000</a>  |
| Type       | VSSC6 MOV 120VAC/DC   |
| GTIN (EAN) | 4032248829927   |
| Qty.       | 5 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      | 81 mm   | Depth (inches)  | 3.189 inch  |
| Height     | 88.5 mm | Height (inches) | 3.4842 inch |
| Width      | 6.2 mm  | Width (inches)  | 0.2441 inch |
| Net weight | 57.8 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 | 4391 a |
| SFF                                | 100 % | λges | 26     |
| PFH in 1*10 <sup>-9</sup> per hour | 0     |      |        |

## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

## Rated data UL

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

## CSA protection data

|                              |       |                            |      |
|------------------------------|-------|----------------------------|------|
| Gas group D                  | IIA   | Gas groups A, B            | IIC  |
| Input-current, max. II       | 12 A  | Gas group C                | IIB  |
| Internal inductance, max. LI | 0 µH  | Internal capacity, max. CI | 2 nF |
| Input voltage, max. Ui       | 212 V |                            |      |

## General data

|                           |   |               |                                       |
|---------------------------|---|---------------|---------------------------------------|
| Optical function display  | No  | Segment       | Measurement - Monitoring<br>- Setting |
| Version                   | Surge protection for<br>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)                                   | 120 V                            |
| Rated voltage (DC)                                 | 170 V          | Rated current I <sub>N</sub>                         | 12 A                             |
| Voltage type                                       | AC/DC          | Volume resistance                                    | <0.1 Ω                           |
| Capacitance  | 283 pF         | Standards  | According to IEC61643-21         |
| Discharge current, max. (8/20 μs)                  | 12 kA          | Requirements category acc. to IEC 61643-21           | C1, C2                           |
| Insertion loss                                     | ≤ 0.5 dB       | Max. continuous voltage, U <sub>c</sub> (AC)         | 150 V                            |
| Max. continuous voltage, U <sub>c</sub> (DC)       | 212 V          | Surge current-carrying capacity C1                   | 0.5 kA 8/20 μs 1 kV<br>1.2/50 μs |
| Overload - failure mode                            | Mode 1         | Rated load current I <sub>L</sub>                    | 12 A                             |
| Discharge current I <sub>n</sub> (8/20 μs) wire-PE | 0.5 kA         | Discharge current I <sub>max</sub> (8/20 μs) wire-PE | 6 kA                             |
| Surge current-carrying capacity C2                 | 1.5 kA 8/20 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 <sup>2</sup> | Clamping range, 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> |
| Connection cross-section, stranded, min.                   | 0.5 mm <sup>2</sup> | Connection cross-section, stranded, max.                   | 4 mm <sup>2</sup> |

### Electrical data

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

### General data

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

### Important note

|                     |   |
|---------------------|---|
| Product information | 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. |
|---------------------|---|

### Classifications

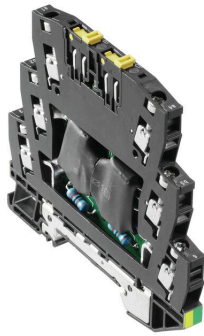
|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC000943    | ETIM 9.0    | EC000943    |
| ETIM 10.0   | EC000943    | ECLASS 14.0 | 27-17-15-01 |
| ECLASS 15.0 | 27-17-15-01 |             |             |

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Drawings



Similar to illustration



Circuit diagram

