# VSSC4 MOV 12VDC

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

www.weidmueller.com

Surge protection with individual components
- With suppressor diodes
  Suppressor diodes work similarly as conventional Zener diodes. The diode becomes conductive within 10– 100ps after a certain breakdown voltage, set by the manufacturer, is exceeded. Compared to Zener diodes, suppressor diodes have a higher current-carrying capacity and a shorter reaction time.

## General ordering data

| | |
|---|---|
| Version | Surge protection for instrumentation and control, Surge protection for measurement and control, $U_P$(L/N-PE) ≤ 100 V |
| Order No. | 1063950000 |
| Type | VSSC4 MOV 12VDC |
| GTIN (EAN) | 4032248829378 |
| Qty. | 10 pc(s). |

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## Technical data

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 58.5 mm | Depth (inches) | 2.303 inch |
| Height | 76 mm | Height (inches) | 2.992 inch |
| Width | 6.2 mm | Width (inches) | 0.244 inch |
| Net weight | 27.8 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 | 4,391 a |
| SFF | 100 % | λges | 26 |
| PFH in $1*10^{-9}$ per hour | 0 | | |

### 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. $C_I$ | 12 nF |
| Internal inductance, max. $L_I$ | 0 µH | | |

### General data

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

### Insulation coordination acc. to EN 50178

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

### Rated data IEC / EN

| | | | |
|---|---|---|---|
| Capacitance | 11.2 nF | Discharge current $I_{max}$ (8/20µs) wire-PE | 1 kA |
| Discharge current $I_n$ (8/20µs) wire-PE | 0.5 kA | Discharge current, max. (8/20 µs) | 1 kA |
| Max. continuous voltage, Uc (DC) | 15 V | Number of poles | 1 |
| Overload - failure mode | Mode 1 | Protection level $U_P$ (typ.) | ≤ 100 V |
| Rated current $I_N$ | 20 A | Rated voltage (DC) | 12 V |
| Requirements category acc. to IEC 61643-21 | C1 | Standards | IEC 61643-21 |
| Surge current-carrying capacity C1 | 0.25 kA 8/20 µs 0.5 kV 1.2/50 µs | Surge current-carrying capacity C2 | 1 kA 8/20 µs |
| Voltage type | AC/DC | Volume resistance | <0.1 Ω |

### Further details of approvals

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

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### 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 mm² | Clamping range, max. | 4 mm² |
| Wire cross-section, solid, min. | 0.5 mm² | Wire cross-section, solid, max. | 6 mm² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.5 mm² | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 4 mm² |
| Connection cross-section, stranded, min. | 0.5 mm² | Connection cross-section, stranded, max. | 4 mm² |

### Electrical data

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

### Ratings IECEx/ATEX/cUL

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

### Classifications

| | | | |
|---|---|---|---|
| ETIM 7.0 | EC000943 | ETIM 8.0 | EC000943 |
| ETIM 9.0 | EC000943 | ETIM 10.0 | EC000943 |
| ECLASS 12.0 | 27-17-15-01 | ECLASS 13.0 | 27-17-15-01 |
| ECLASS 14.0 | 27-17-15-01 | ECLASS 15.0 | 27-17-15-01 |

### Tender specification sheets

| | | | |
|---|---|---|---|
| Long specification | Feed-through terminal, 6.2 mm wide with varistor arrester between the signal line connection and the mounting rail potential, TS 35 contact base.A signal with max. 32A can be protected here. When the terminal is fitted, a simultaneous electrically conducting contact is made between the mounting rail (earth) and the reference potential (ground) of the protection circuit in the terminal. 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 | Feed-through terminal with a varistor as central protection between the signal line connection and the mounting rail potential, TS 35 contact base. Version: 12 V UC |

### Environmental Product Compliance

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

### 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. |

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### Approvals

| | |
|---|---|
| Approvals |  |
| Approvals MAMID | https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319227/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319238/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319252/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319261/-T1z1mm-S800/ |
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (UL) | E311081 |

### Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | SIL Paper<br>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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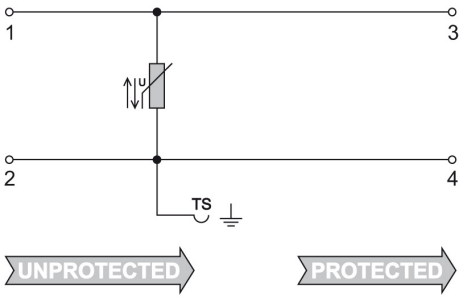
## Drawings

Similar to illustration




Circuit diagram

SIL SUITABLE 61508