

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com













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Similar to illustration

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 industrical 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) ≤ 100 V | | |
| Order No. | <u>1063830000</u> | | |
| Туре | VSSC4 SL 12VDC 0.5A | | |
| GTIN (EAN) | 4032248829279 | | |
| Qty. | 10 items | | |





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Technical data

| Approvals | |
|-----------|--|
| | |

| Approvals | C E CSAE | X OVE U |
|-----------|----------|---------|

| ROHS | Conform |
|-----------------------|-------------------|
| UL File Number Search | <u>UL Website</u> |
| 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 | 27.6 g | | |

Temperatures

| Storage temperature | -40 °C80 °C | Operating temperature | -40 °C70 °C |
|---------------------|-------------|-----------------------|-------------|
| Humidity | 596 % | | |

Probability of failure

| SIL in compliance with IEC 61508 | 3 | MTTF | 2655 a |
|----------------------------------|---------|------|--------|
| SFF | 97.91 % | λges | 43 |
| PFH in 1*10-9 per hour | 0.9 | | |

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 μΗ | Internal capacity, max. CI | 2 nF | |
| Input voltage, max. Ui | 15 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

| Surge voltage category | III | Pollution severity | 2 |
|--|--|--|----------------------------------|
| Rated data IEC / EN | | • | |
| nated data ILO / LIV | | | |
| Number of poles | 1 | Rated voltage (DC) | 12 V |
| Rated current IN | 500 mA | Protection level UP (typ.) | ≤ 100 V |
| Voltage type | AC/DC | Fuse protection | 0.5 A |
| Volume resistance | 1.8 Ω 10 % | Standards | IEC 61643-21 |
| Lightning test current limp (10/350 μs) | 1 kA | Discharge current, max. (8/20 µs) | 10 kA |
| Requirements category acc. to IEC 61643-21 | C2, C3, D1 | Insertion loss | 866.4 kHz |
| Max. continuous voltage, Uc (DC) | 15 V | Surge current-carrying capacity D1 | 1 kA 10/350 μs |
| Surge current-carrying capacity C3 | 10 A 10/1000 μs | Pulse-reset capacity | ≤ 20 ms |
| Signal transmission properties (-3 dB) | 860 KHz | Lightning test current, limp (10/350 μs) Wire-PE | 0.5 kA |
| Overload - failure mode | Modus 2 | Discharge current In (8/20µs) wire-PE | 2.5 kA |
| Discharge current Imax (8/20µs) wire-P | E10 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 - | | |
| GOST certificate | 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 mm² | 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 | | | |
| Ni yashay af yalaa | 1 | Ducto etian de que | ID20 |
| Number of poles Colour | 1 black | Protection degree | IP20 |
| Ratings IECEx/ATEX/cUL | DIACK | | |
| namys iecex/ATEX/CUL | | | |
| cUL certificate | cUL Certificate - pdf/ VSSC.PDF (application/ | | |
| | pdf) | | |
| Important note | pai) | | |

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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 | Surge protection in a one piece, 6.2 mm wide DIN rail module for a binary, potential-free signal circuit with 12 V DC. A signal with max. 0.5 A 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 | Surge protection in a one piece, 6.2 mm wide DIN rail module for a binary, potential-free signal circuit. Version: 12V DC |
|--------------------|---|---------------------|---|

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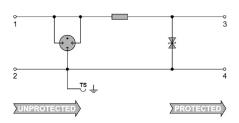
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Drawings



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Circuit diagram

