

VSSC6 TRLDMOV 48VAC/DC**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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, Surge protection for measurement and control, U _P (L/N-PE) 250 V
Order No.	1064820000
Type	VSSC6 TRLDMOV 48VAC/DC
GTIN (EAN)	4032248830077
Qty.	8 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	7.2 mm	Width (inches)	0.283 inch
Net weight	53.75 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	3,085 a
SFF	97.57 %	λ_{ges}	37
PFH in $1 \cdot 10^{-9}$ per hour	0.9		

Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL Zertifikat
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CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I_i	12 A
Input voltage, max. U_i	85 V	Internal capacity, max. C_i	3,3 nF
Internal inductance, max. L_i	0 μ H		

General data

Number of poles	1	Protection degree	IP20
Colour	black		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Rated data IEC / EN

Capacitance	2.0 nF	Discharge current I_{max} (8/20 μ s) wire-PE	4.5 kA
Discharge current I_n (8/20 μ s) wire-PE	1 kA	Discharge current, max. (8/20 μ s)	9 kA
Insertion loss	≤ 1.0 dB	Max. continuous voltage, U_c (AC)	60 V
Max. continuous voltage, U_c (DC)	85 V	Number of poles	1
Overload - failure mode	Mode 1	Protection level U_p (typ.)	250 V
Rated current I_N	12 A	Rated voltage (AC)	48 V
Rated voltage (DC)	68 V	Requirements category acc. to IEC 61643-21	C1, C2
Standards	IEC 61643-21	Surge current-carrying capacity C1	0.5 kA 8/20 μ s 1 kV 1.2/50 μ s
Surge current-carrying capacity C2	1.5 kA 8/20 μ s	Voltage type	AC/DC
Volume resistance	$<0.1 \Omega$		

Further details of approvals

GOST certificate	GOST-Zertifikat
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Creation date June 16, 2025 5:30:54 PM CEST

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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 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

Electrical data

Voltage type	AC/DC
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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	Feed-through terminal, 6.2mm wide with varistors between the two signal lines and the mounting rail potential, TS 35 contact base. Each signal path can be opened using an isolator. A signal with max. 12A 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 varistors (MOV) between two signal lines and mounting rail potential. Each signal path can be opened using an isolator. TS 35 contact base. Version: 48 V UC
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Environmental Product Compliance

RoHS Compliance Status	Compliant
REACH SVHC	Lead 7439-92-1
SCIP	71e97bb7-979f-4330-94c0-20c629bb05e3

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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Technical data

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](#)
[EU Konformitätserklärung / EU Declaration of Conformity](#)

Engineering Data [CAD data – STEP](#)

User Documentation [Beipackzettel / Instruction sheet](#)

Catalogues [Catalogues in PDF-format](#)

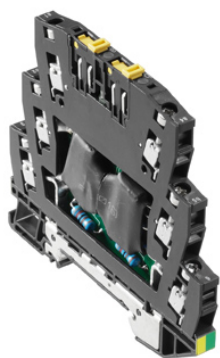
Brochures

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Drawings



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