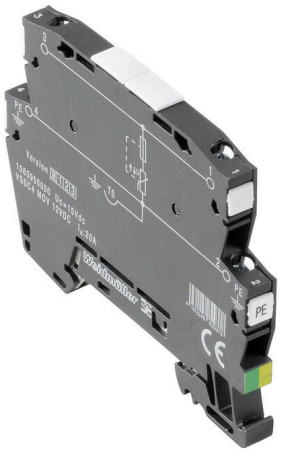
Data sheet

VSSC4 MOV 48VAC/DC

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

www.weidmueller.com



Similar to illustration

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
Order No.	1063970000
Type	VSSC4 MOV 48VAC/DC
GTIN (EAN)	4032248829392
Qty.	10 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	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	27.8 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	4391 a
SFF	100 %	λges	26
PFH in 1*10-9 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/ 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 µH	Internal capacity, max. CI	1650 pF
Input voltage, max. Ui	85 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

Insulation coordination acc. to EN 50178

Surge voltage category	III	Pollution severity	2

Rated data IEC / EN

Number of poles	1	Rated voltage (AC)	48 V
Rated voltage (DC)	68 V	Rated current IN	20 A
Voltage type	AC/DC	Volume resistance	<0.1 Ω
Capacitance	1.9 nF	Standards	IEC 61643-21
Discharge current, max. (8/20 µs)	4.5 kA	Requirements category acc. to IEC 61643-21	C1, C2
Max. continuous voltage, Uc (AC)	60 V	Max. continuous voltage, Uc (DC)	85 V
Surge current-carrying capacity C1	0.25 kA 8/20 µs 0.5 kV 1.2/50 µs	Overload - failure mode	Mode 1
Rated load current IL	20 A	Discharge current In (8/20µs) wire-PE	0.5 kA
Discharge current Imax (8/20µs) wire-PE	4.5 kA	Surge current-carrying capacity C2	1 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 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

General data

Number of poles	1	Protection degree	IP20
Colour	black		

Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate - pdf/ VSSC.PDF (application/ pdf)

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

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Technical data

ECLASS 15.0	27-17-15-01

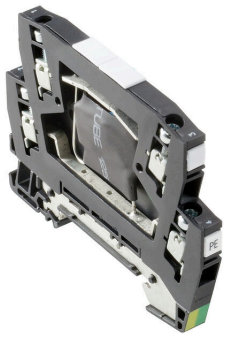
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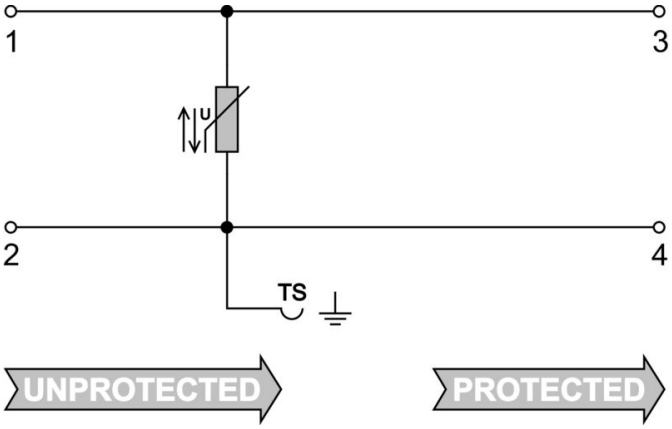
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Drawings



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Circuit diagram



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