

VSSC6 MOV 120VAC/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, $U_P(L/N-PE) < 600\text{ V}$
Order No.	1064610000
Type	VSSC6 MOV 120VAC/DC
GTIN (EAN)	4032248829927
Qty.	5 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	12.4 mm	Width (inches)	0.488 inch
Net weight	57.8 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 %	λ_{ges}	26
PFH in $1 \cdot 10^{-9}$ per hour	0		

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	212 V	Internal capacity, max. C_i	2 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	283 pF	Discharge current I_{max} (8/20 μ s) wire-PE	6 kA
Discharge current I_n (8/20 μ s) wire-PE	1.5 kA	Discharge current, max. (8/20 μ s)	12 kA
Insertion loss	≤ 0.5 dB	Max. continuous voltage, U_c (AC)	150 V
Max. continuous voltage, U_c (DC)	212 V	Number of poles	1
Overload - failure mode	Mode 1	Protection level U_p (typ.)	< 600 V
Rated current I_N	12 A	Rated voltage (AC)	120 V
Rated voltage (DC)	170 V	Requirements category acc. to IEC 61643-21	C1, C2
Standards	According to IEC61643-21	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 Ω		

Further details of approvals

GOST certificate	GOST-Zertifikat
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Creation date June 12, 2025 12:53:21 PM CEST

Catalogue status 07.06.2025 / We reserve the right to make technical changes.

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Technical data**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. 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 the mounting rail potential, TS 35 contact base. Version: 120 V UC
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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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www.weidmueller.com**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/
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ROHS	Conform
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UL File Number Search	UL Website
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Certificate No. (UL)	E311081
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Downloads

Approval/Certificate/Document of Conformity	SIL Paper EU Konformitätserklärung / EU Declaration of Conformity
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Engineering Data	CAD data – STEP
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User Documentation	Beipackzettel / Instruction sheet
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Catalogues	Catalogues in PDF-format
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Brochures	
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Weidmüller Interface GmbH & Co. KG

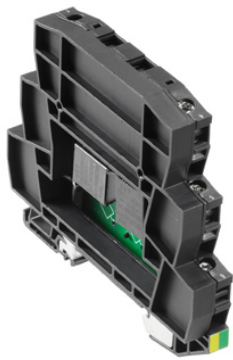
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Drawings



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