

VSSC4 MOV 120VAC/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, $U_p(L/N-PE) < 600\text{ V}$
Order No.	1063990000
Type	VSSC4 MOV 120VAC/DC
GTIN (EAN)	4032248829415
Qty.	5 pc(s).

Creation date December 13, 2023 7:08:58 PM CET

Catalogue status 09.12.2023 / We reserve the right to make technical changes.

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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	12.4 mm	Width (inches)	0.488 inch
Net weight	44.6 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
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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	500 mA
Input voltage, max. U _i	212 V	Internal capacity, max. C _i	2 nF
Internal inductance, max. L _i	0 μH		

General data

Colour	black	Design	Terminal
Isolating function	No	Optical function display	No
Protection degree	IP20	Rail	TS 35
Segment	Measurement - Monitoring - Setting	UL 94 flammability rating	V-0
Version	Surge protection for measurement and control		

Insulation coordination acc. to EN 50178

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

Capacitance	1.48 nF	Discharge current I _{max} (8/20μs) wire-PE	15 kA
Discharge current I _n (8/20μs) wire-PE	3.7 kA	Discharge current, max. (8/20 μs)	15 kA
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	20 A
Rated voltage (AC)	120 V	Rated voltage (DC)	170 V
Requirements category acc. to IEC 61643-21	C1, C2	Standards	IEC 61643-21
Surge current-carrying capacity C1	0.5 kA 8/20 μs 1 kV 1.2/50 μs	Surge current-carrying capacity C2	1 kA 8/20 μs
Voltage type	AC/DC	Volume resistance	<0.1 Ω

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2

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Technical data**Further details of approvals**

GOST certificate GOST-Zertifikat

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

Ratings IECEx/ATEX/cUL

cUL certificate cUL Certificate

Classifications

ETIM 6.0	EC000943	ETIM 7.0	EC000943
ETIM 8.0	EC000943	ETIM 9.0	EC000943
ECLASS 9.0	27-13-08-07	ECLASS 9.1	27-13-08-07
ECLASS 10.0	27-13-08-07	ECLASS 11.0	27-13-08-07
ECLASS 12.0	27-17-90-90	ECLASS 13.0	27179090

Tender specification sheets

Long specification	<p>Feed-through terminal, 12.4mm 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.</p> <p>Optical identification of the terminal based on the type of protected switching and the voltage level. The terminal can be labelled or marked.</p>	Short specification	<p>Feed-through terminal with a varistor as central protection between the signal line connection and the mounting rail potential, TS 35 contact base. Version: 120 V UC</p>
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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



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	

Data sheet

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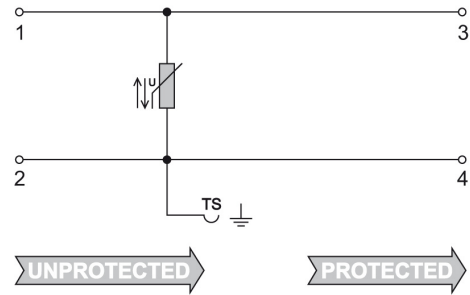
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Drawings



Similar to illustration



Circuit diagram

