

VSSC4 MOV 12VDC**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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, 12 V, 20 A, IEC 61643-21
Order No.	1063950000
Type	VSSC4 MOV 12VDC
GTIN (EAN)	4032248829378
Qty.	10 pc(s).

Creation date March 22, 2021 10:09:12 PM CET

Catalogue status 12.03.2021 / 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
Net weight	27.8 g	Width	6.2 mm
Width (inches)	0.244 inch		

Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...70 °C
Humidity	5...96 %		

Probability of failure

SIL PAPER	SIL Paper	SIL in compliance with IEC 61508	3
MTTF	4,391 Jahre	SFF	100 %
λ_{ges}	26	PFH in $1 \cdot 10^{-9}$ per hour	0

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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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	15 V	Internal capacity, max. C_i	12 nF
Internal inductance, max. L_i	0 μ H		

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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Technical data**Rated data IEC / EN**

Capacitance	11.2 nF	Discharge current $I_{\max}$ (8/20µs) wire-PE	1 kA
Discharge current I_n (8/20µs) wire-PE	0.5 kA	Discharge current, max. (8/20 µs)	1 kA
Max. continuous voltage, U_c (DC)	15 V	Number of poles	1
Overload - failure mode	Mode 1	Protection level U_p (typ.)	≤ 100 V
Rated current I_N	20 A	Rated voltage (DC)	12 V
Requirements category acc. to IEC 61643-21	C1	Standards	IEC 61643-21
Surge current-carrying capacity C1	0.25 kA 8/20 µs 0.5 kV 1.2/50 µs	Surge current-carrying capacity C2	1 kA 8/20 µs
Voltage type	AC/DC	Volume resistance	<0.1 Ω

Further details of approvals

GOST certificate	GOST-Zertifikat
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Connection data

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
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Classifications

ETIM 6.0	EC000943	ETIM 7.0	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

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Technical data

Tender specification sheets

Long specification	Short specification
Feed-through terminal, 6.2 mm 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. Optical identification of the terminal based on the type of protected switching and the voltage level. The terminal can be labelled or marked.	Feed-through terminal with a varistor as central protection between the signal line connection and the mounting rail potential, TS 35 contact base. Version: 12 V UC

Approvals

Approvals



ROHS	Conform
UL File Number Search	E311081

Downloads

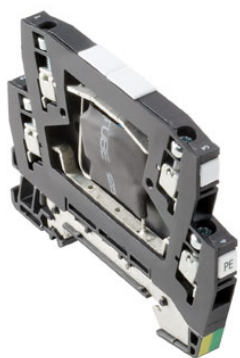
Approval/Certificate/Document of Conformity	SIL Paper CE PAPER Declaration of Conformity
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet VSSC

VSSC4 MOV 12VDC

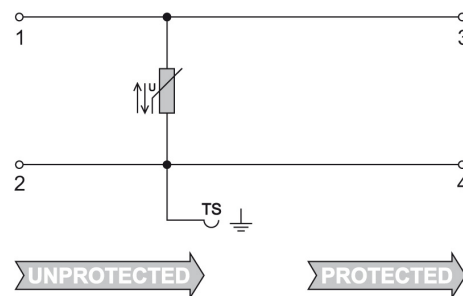
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Drawings



Similar to illustration



Circuit diagram

