

**VSSC**  
**VSSC4 MOV 120VAC/DC****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

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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**

Type	VSSC4 MOV 120VAC/DC
Order No.	<a href="#">1063990000</a>
Version	Surge protection for instrumentation and control, 120 V, 170 V, 20 A, IEC 61643-21
GTIN (EAN)	4032248829415
Qty.	5 pc(s).

Creation date April 14, 2020 12:24:17 AM CEST

Catalogue status 03.04.2020 / We reserve the right to make technical changes.

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**Technical data****Dimensions and weights**

Width	6.2 mm	Width (inches)	0.244 inch
Height	76 mm	Height (inches)	2.992 inch
Depth	58.5 mm	Depth (inches)	2.303 inch
Net weight	44.6 g		

**Temperatures**

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

**Probability of failure**

λges	26	MTTF	4,391 Jahre
PFH in 1*10 <sup>-9</sup> per hour	0	SFF	100 %
SIL in compliance with IEC 61508	3		

**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 <sub>i</sub>	500 mA
Input voltage, max. U <sub>i</sub>	212 V	Internal capacity, max. C <sub>i</sub>	2 nF
Internal inductance, max. L <sub>i</sub>	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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**Technical data****Rated data IEC / EN**

Rated voltage (AC)	120 V	Rated voltage (DC)	170 V
Voltage type	AC/DC	Max. continuous voltage, $U_c$ (AC)	150 V
Max. continuous voltage, $U_c$ (DC)	212 V	Discharge current, max. (8/20 $\mu$ s)	15 kA
Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	3.7 kA	Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	15 kA
Standards	IEC 61643-21	Protection level $U_p$ (typ.)	< 600 V
Capacitance	1.48 nF	Number of poles	1
Overload - failure mode	Mode 1	Rated current $I_N$	20 A
Requirements category acc. to IEC 61643-21	C1, C2	Surge current-carrying capacity C1	0.5 kA 8/20 $\mu$ s 1 kV 1.2/50 $\mu$ s
Surge current-carrying capacity C2	1 kA 8/20 $\mu$ s	Volume resistance	< 0.1 $\Omega$

**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 <sup>2</sup>
Clamping range, max.	4 mm <sup>2</sup>	Wire cross-section, solid, min.	0.5 mm <sup>2</sup>
Wire cross-section, solid, max.	6 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	4 mm <sup>2</sup>	Connection cross-section, stranded, min.	0.5 mm <sup>2</sup>
Connection cross-section, stranded, max.	4 mm <sup>2</sup>		

**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	UNSPSC	30-21-18-11

**Approvals**

Approvals



ROHS Conform

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">SIL Paper</a> <a href="#">CE PAPER</a> <a href="#">Declaration of Conformity</a>
Brochure/Catalogue	<a href="#">CAT 4.4 ELECTR 16/17 EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Instruction sheet VSSC</a>

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**Data sheet**

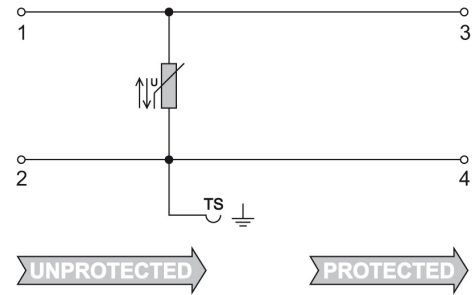
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**Drawings**



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Circuit diagram