

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

Klingenbergstraße 26

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



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 12VDC
Order No.	1063950000
Version	Surge protection for instrumentation and control, 12 V, 20 A, IEC 61643-21
GTIN (EAN)	4032248829378
Qty.	10 pc(s).

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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	27.8 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

λ _{ges}	26	MTTF	4,391 Jahre
PFH in 1*10 ⁻⁹ 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 _i	500 mA
Input voltage, max. U _i	15 V	Internal capacity, max. C _i	12 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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Technical data**Rated data IEC / EN**

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

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
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Downloads

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

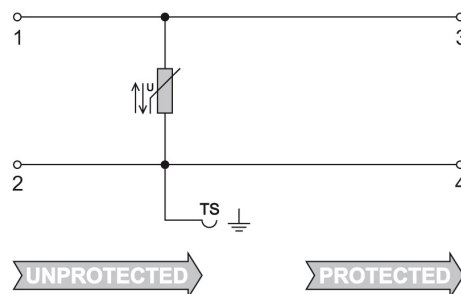
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Drawings



Similar to illustration



Circuit diagram