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, Surge protection for measurement and control, U_P(L/N-PE) ≤ 100 V
Order No.	1063950000
Type	VSSC4 MOV 12VDC
GTIN (EAN)	4032248829378
Qty.	10 pc(s).

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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	6.2 mm	Width (inches)	0.244 inch
Net weight	27.8 g		

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 %
λges	26	PFH in $1*10^{-9}$ per hour	0

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL Zertifikat

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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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, Uc (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

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 mm²	Clamping range, max.	4 mm²
Wire cross-section, solid, min.	0.5 mm²	Wire cross-section, solid, max.	6 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	4 mm²
Connection cross-section, stranded, min.	0.5 mm²	Connection cross-section, stranded, max.	4 mm²

Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate

Classifications

ETIM 6.0	EC000943	ETIM 7.0	EC000943
ETIM 8.0	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

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Technical data

Tender specification sheets

Long 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.	Short specification	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

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.

Approvals

Approvals	
ROHS	Conform
UL File Number Search	E311081

Downloads

Approval/Certificate/Document of Conformity	SIL Paper EU_Konformitätserklärung / EU_Declaration_of_Conformity
Engineering Data	CAD data – STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	

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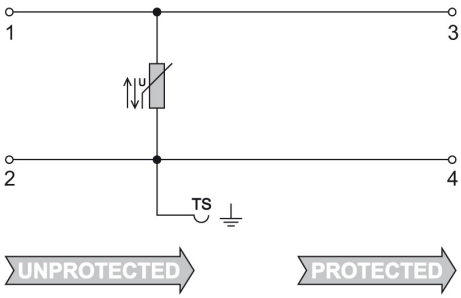
Drawings

Similar to illustration



Circuit diagram

SIL SUITABLE 61508