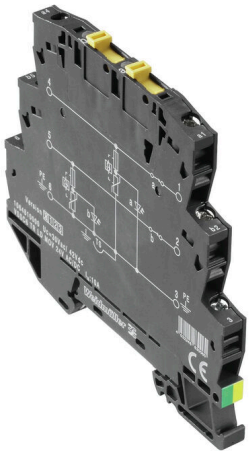
Data sheet

VSSC6 TRLDMOV 12VDC

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



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

Version	Surge protection for instrumentation and control, Surge protection for measurement and control
Order No.	1064800000
Type	VSSC6 TRLDMOV 12VDC
GTIN (EAN)	4032248830053
Qty.	8 items

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Technical data

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UL)	E311081

Dimensions and weights

Depth	81 mm	Depth (inches)	3.189 inch
Height	88.5 mm	Height (inches)	3.4842 inch
Width	6.2 mm	Width (inches)	0.2441 inch
Net weight	46.64 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	3085 a
SFF	97.57 %	λges	37
PFH in 1*10-9 per hour	0.9		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL Zertifikat - PDF/ E311081VOL1SEC3.pdf (application/pdf)

CSA protection data

Gas group D	IIA	Gas groups A, B	IIC
Input-current, max. II	12 A	Gas group C	IIB
Internal inductance, max. LI	0 µH	Internal capacity, max. CI	24 nF
Input voltage, max. Ui	15 V		

General data

Optical function display	Yes	Segment	Measurement - Monitoring - Setting
Version	Surge protection for measurement and control	Design	Terminal
UL 94 flammability rating	V-0	Colour	black
Protection degree	IP20	Mounting rail	TS 35
Isolating function	Yes	Testing option	Functional screw with test plug receptacle, connections 1, 2, 4, 5

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Insulation coordination acc. to EN 50178

Surge voltage category	III	Pollution severity	2

Rated data IEC / EN

Number of poles	1	Rated voltage (DC)	12 V
Rated current IN	12 A	Voltage type	DC
Volume resistance	<0.1 Ω	Capacitance	10.8 nF
Standards	IEC 61643-21	Discharge current, max. (8/20 µs)	2 kA
Requirements category acc. to IEC 61643-21	C1	Insertion loss	≤ 1.0 dB
Max. continuous voltage, Uc (DC)	15 V	Surge current-carrying capacity C1	0.25 kA 8/20 µs 0.5 kV 1.2/50 µs
Overload - failure mode	Mode 1	Discharge current Imax (8/20µs) wire-PE	1 kA
Surge current-carrying capacity C2	1.5 kA 8/20 µs		

Further details of approvals

GOST certificate	GOST-Zertifikat - PDF/7950_n1-n4.pdf (application/pdf)

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

Electrical data

Voltage type	DC

General data

Number of poles	1	Protection degree	IP20
Colour	black		

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.

Classifications

ETIM 8.0	EC000943	ETIM 9.0	EC000943
ETIM 10.0	EC000943	ECLASS 14.0	27-17-15-01
ECLASS 15.0	27-17-15-01		

Tender specification sheets

Long specification	Feed-through terminal, 6.2mm wide with varistors between the two signal	Short specification	Feed-through terminal with varistors (MOV) between two signal

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Technical data

	lines and the mounting rail potential, TS 35 contact base. Each signal path can be opened using an isolator. A signal with max. 12A 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.	lines and mounting rail potential.Each signal path can be opened using an isolator. TS 35 contact base. Version: 12 V UC

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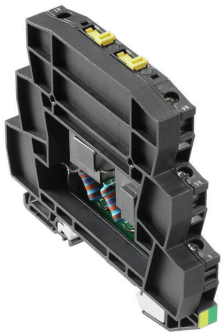
Drawings



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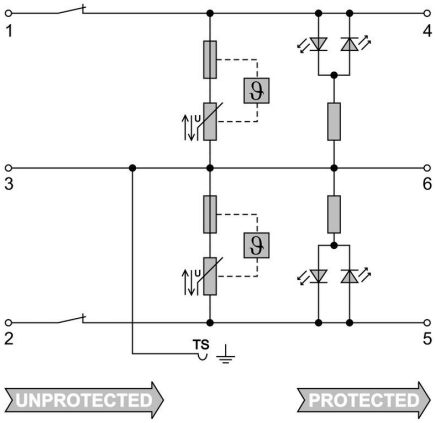

Circuit diagram