

## VSSC

### VSSC6 TRLDMOV120VAC/DC

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

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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	VSSC6 TRLDMOV120VAC/DC
Order No.	<a href="#">1064840000</a>
Version	Surge protection for instrumentation and control, 120 V, 170 V, 12 A, IEC 61643-21
GTIN (EAN)	4032248830091
Qty.	5 pc(s).

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

Width	12.2 mm	Width (inches)	0.48 inch
Height	88.5 mm	Height (inches)	3.484 inch
Depth	81 mm	Depth (inches)	3.189 inch
Net weight	62.8 g		

**Temperatures**

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

**Probability of failure**

λges	37	MTTF	3,085 Jahre
PFH in 1*10 <sup>-9</sup> per hour	0.9	SFF	97.57 %
SIL in compliance with IEC 61508	3		

**CSA protection data**

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I <sub>i</sub>	12 A
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	Yes	Mounting rail	TS 35
Optical function display	Yes	Protection degree	IP20
Segment	Instrumentation and Control	Testing option	Functional screw with test plug receptacle, connections 1, 2, 4, 5
UL 94 flammability rating	V-0		

**Insulation coordination acc. to EN 50178**

Pollution severity	2	Surge voltage category	III
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**Rated data IEC / EN**

Capacitance	283 pF	Discharge current I <sub>max</sub> (8/20μs) wire-PE	6 kA
Discharge current I <sub>n</sub> (8/20μs) wire-PE	1.5 kA	Discharge current, max. (8/20 μs)	12 kA
Max. continuous voltage, U <sub>c</sub> (AC)	150 V	Max. continuous voltage, U <sub>c</sub> (DC)	212 V
Overload - failure mode	Mode 1	Protection level U <sub>p</sub> (typ.)	< 600 V
Rated current I <sub>N</sub>	12 A	Rated voltage (AC)	120 V
Rated voltage (DC)	170 V	Requirements category acc. to IEC 61643-21	C1, C2
Standards	IEC 61643-21	Surge current-carrying capacity C1	0.5 kA 8/20 μs 1 kV 1.2/50 μs
Surge current-carrying capacity C2	1.5 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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Creation date December 31, 2017 4:50:18 PM CET

Catalogue status 01.12.2017 / We reserve the right to make technical changes.

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**Technical data****Connection data**

Type of connection	Screw connection, Torx® T15, Slotted 0.8 x 4	Tightening torque, min.	0.5 Nm
Tightening torque, max.	0.8 Nm	Clamping range, rated connection, min.	0.5 mm <sup>2</sup>
Clamping range, rated connection, 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>	Wire connection cross section, stranded, rated connection, min.	0.5 mm <sup>2</sup>
Wire connection cross section, stranded, rated connection, max.	4 mm <sup>2</sup>		

**Rated data UL**

Certificate No. (UL)	E311081	UL certificate	UL Zertifikat
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**Classifications**

ETIM 3.0	EC000943	ETIM 4.0	EC000941
ETIM 5.0	EC000943	ETIM 6.0	EC000943
UNSPSC	30-21-18-11	eClass 5.1	27-14-11-27
eClass 6.2	27-13-08-05	eClass 7.1	27-13-08-09
eClass 8.1	27-13-08-11	eClass 9.0	27-13-08-11
eClass 9.1	27-13-08-07		

**Product information**

Descriptive text ordering data	End plate AP VSSC6 1063110000
Descriptive text accessories	Screwdriver: Torx® 9009170000 Slot 0.8x4.0 9008340000 Test plug PS2.3 0180400000 EMC Set: 1067470000 Marker: WS10/6 1818400000; DEK 6 0468560000; DEK 5 176826; SNAPMARK 1805880000

**Approvals**

Approvals



ROHS Conform

**Downloads**

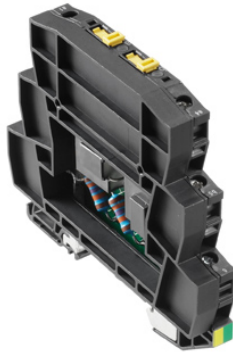
Approval/Certificate/Document of Conformity	<a href="#">SIL Paper</a> <a href="#">CE PAPER</a>
Brochure/Catalogue	<a href="#">CAT 4.4 ELECTR 16/17 EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
User Documentation	<a href="#">Instruction sheet VSSC</a>

**Data sheet**

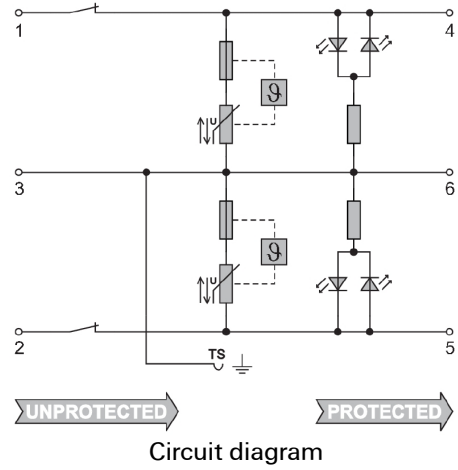
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**Drawings**



Similar to illustration



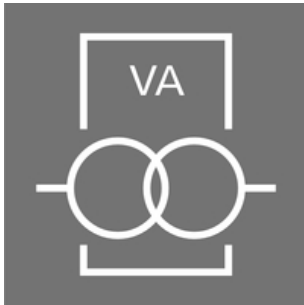
**Data sheet**

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**Accessories**

**Test plug**



**Current and voltage transformer wiring**

Our test disconnect terminal blocks featuring spring and screw connection technology allow you to create all the important converter circuits for measuring current, voltage and power in a safe and sophisticated way.

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
PS 2.3 RT	<a href="#">0180400000</a>	Accessories, Test plug	400819006012120	pc(s).

**Accessories ( end plates)**

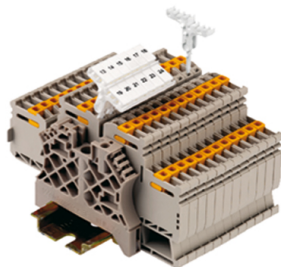


End plates (AP) for the VSSC product series in light blue and black

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
AP VSSC6	<a href="#">1063110000</a>	VSSC, End plate	403224894755350	pc(s).

**SnapMark IDC**



SnapMark - this tag carrier has been developed specifically for the I-series double-level terminal IDK 1.5N. The flexible pivot mechanism allows cross-connections to be easily installed or removed. It can hold four DEK 5 labelling tags or two WS 10/5 Middle connector markers.

**General ordering data**

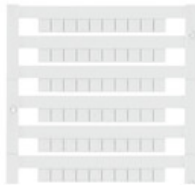
Type	Order No.	Version	GTIN (EAN)	Qty.
SNAPMARK I	<a href="#">1805880000</a>	Group marker, Terminal marker, 23 x 5 mm, Pitch in mm (P): 5.00 White	403224827361450	pc(s).

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**Accessories**

**Blank**



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

**General ordering data**

Type	Order No.	Version	GTIN (EAN)	Qty.
DEK 5/5 MC	<a href="#">1609801044</a>	Dekafix, Terminal marker,	4008190397111	1,000 pc(s).
NE WS		5 x 5 mm, Pitch in mm (P): 5,00 Weidmueller, White		