

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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Similar to illustration

Overvoltage coupling along the conductor path may disturb or destroy sensitive signal inputs. It is important to provide protection in the immediate vicinity of I&C devices. Weidmüller's broad product range for the I&C sector offers products in a 2-piece, pluggable design and modular terminals for tension clamp or screw connection. These products are suitable for both binary and analogue signals. Weidmüller also offers other designs with integrated components such as gas discharge tubes or varistors. VARITECTOR stands for flexible and variable surge protection by Weidmüller, tested according to product standard IEC61643-21. The VARITECTOR series can be used in applications according to IEC 61643-22 / VDE 0845-3 for classes C1, C2, C3 and D1. The VARITECTOR SPC, SSC and MCZ OVP product families optimally combine electrical and mechanical properties. Size and easy handling play an important role. This surge protection is suited for confined spaces in industrical and process automation as well as in building automation applications.

General ordering data

Version	Surge protection for instrumentation and control,
	Surge protection for measurement and control,
	UP(L/N-PE) 770 V
Order No.	<u>1064240000</u>
Туре	VSSC6 TRCL48VAC/DC0.5A
GTIN (EAN)	4032248829606
Qty.	10 items





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test plug receptacle, connections 1, 2, 4, 5

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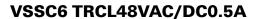
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Technical data

Technical data			
Approvals			
Approvals			
ROHS	Conform		
UL File Number Search	<u>UL Website</u>		
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	43.4 g	width (menes)	0.2441 IIICII
Temperatures			,
Storage temperature	-40 °C80 °C	Operating temperature	-40 °C70 °C
Humidity	596 %		
Probability of failure			
CII in compiliance with IEC 61500	2	MTTF	6008 a
SIL in compliance with IEC 61508 SFF	89.74 %	-	19
PFH in 1*10-9 per hour	1.95	λges	19
Environmental Product Comp			
RoHS Compliance Status	Compliant with exemption		
RoHS Exemption (if applicable/known)	7a, 7cl		
REACH SVHC	Lead 7439-92-1		
SCIP	71e97bb7-979f-4330-94c0)-20c629bb05e3	
Rated data UL			
Certificate No. (UL)	E311081	UL certificate	UL Zertifikat - PDF/
Certificate No. (OL)	2311001	OL Certificate	E311081VOL1SEC3.pdf (application/pdf)
CSA protection data			
_			
Gas group D	IIA	Gas groups A, B	IIC
Input-current, max. II	500 mA	Gas group C	IIB
Internal inductance, max. LI	0 μΗ	Internal capacity, max. Cl	1 nF
Input voltage, max. Ui	85 V		
General data			
Optical function display	No	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

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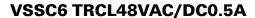
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Technical data

Surge voltage category	III	Pollution severity	2
Rated data IEC / EN			
Number of poles	1	Rated voltage (AC)	48 V
Rated voltage (DC)	68 V	Rated current IN	500 mA
Protection level on output side Wire-wii 1 kV/µs, typically	re 150 V	Protection level, UP wire - wire	200 V
Protection level UP (typ.)	770 V	Voltage type	AC/DC
Fuse protection	0.5 A	Volume resistance	1.8 Ω 10 %
Standards	IEC 61643-21, HART- compatible	Lightning test current limp (10/350 μs)	0.5 kA
Discharge current, max. (8/20 μs)	10 kA	Requirements category acc. to IEC 61643-21	C2, C3, D1
Insertion loss	250 MHz	Max. continuous voltage, Uc (AC)	60 V
Max. continuous voltage, Uc (DC)	85 V	Surge current-carrying capacity D1	0.5 kA 10/350 μs
Surge current-carrying capacity C3	50 A 10/1000 μs	Pulse-reset capacity	≤ 150 ms
Signal transmission properties (-3 dB)	270 Mhz	Lightning test current, limp (10/350 µs Wire-PE) 0.5 kA
Overload - failure mode	Modus 2	Discharge current In (8/20µs) wire-wire	2.5 kA
Discharge current In (8/20µs) wire-PE	2.5 kA	Discharge current Imax (8/20µs) wire-P	
Discharge current Imax (8/20µs) wirewire	5 kA	Surge current-carrying capacity C2	2.5 kA 8/20 µs 5 k\ 1.2/50 µs
Further details of approvals GOST certificate	GOST-Zertifikat - PDF/7950_n1-n4.pdf (application/pdf)		
GOST certificate	PDF/7950_n1-n4.pdf		
GOST certificate Connection data	PDF/7950_n1-n4.pdf (application/pdf)		
GOST certificate Connection data Stripping length	PDF/7950_n1-n4.pdf (application/pdf)	Type of connection	Screw connection
GOST certificate Connection data Stripping length Tightening torque, min.	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm	Tightening torque, max.	0.8 Nm
GOST certificate Connection data Stripping length Tightening torque, min. Clamping range, min.	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm ²	Tightening torque, max. Clamping range, max.	0.8 Nm 4 mm ²
GOST certificate Connection data Stripping length Tightening torque, min. Clamping range, min. Wire cross-section, solid, min.	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm ² 0.5 mm ²	Tightening torque, max. Clamping range, max. Wire cross-section, solid, max.	0.8 Nm 4 mm ² 6 mm ²
GOST certificate Connection data Stripping length Tightening torque, min. Clamping range, min. Wire cross-section, solid, min. Conductor cross-section, flexible, AEH (DIN 46228-1), min.	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm ² 0.5 mm ²	Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH (DIN 46228-1), max.	0.8 Nm 4 mm ² 6 mm ² 4 mm ²
	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm ² 0.5 mm ²	Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH	0.8 Nm 4 mm ² 6 mm ²
GOST certificate Connection data Stripping length Tightening torque, min. Clamping range, min. Wire cross-section, solid, min. Conductor cross-section, flexible, AEH (DIN 46228-1), min. Connection cross-section, stranded, mi	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm ² 0.5 mm ²	Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH (DIN 46228-1), max. Connection cross-section, stranded,	0.8 Nm 4 mm ² 6 mm ² 4 mm ²
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Connection data Stripping length Tightening torque, min. Clamping range, min. Wire cross-section, solid, min. Conductor cross-section, flexible, AEH (DIN 46228-1), min. Connection cross-section, stranded, mi	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm² 0.5 mm² 0.5 mm² AC/DC	Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH (DIN 46228-1), max. Connection cross-section, stranded, max.	0.8 Nm 4 mm² 6 mm² 4 mm² 4 mm²

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Technical data

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	vv				,,,,

Product information Mode 2: State where the voltage-limiting part of the SPD was short-circuited due to a very low

impedance within the SPD. The line is inoperable, but the measuring equipment is still protected

by means of a short-circuit.

Classifications

ETIM 7.0	EC000943	ETIM 8.0	EC000943
ETIM 9.0	EC000943	ETIM 10.0	EC000943
ECLASS 12.0	27-17-15-01	ECLASS 13.0	27-17-15-01
ECLASS 14.0	27-17-15-01	ECLASS 15.0	27-17-15-01

Tender specification sheets

Long specification

Surge protection in a one piece, 6.2 mm wide DIN rail module for a floating-ground signal circuit with 12 V DC, 2-wire technology. A current loop with max. 0.6A can be protected here. Each signal path can be opened using an isolator. 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

Surge protection in a one piece, 6.2 mm wide DIN rail module for a floatingground driven signal circuit with 2-wire technology and a common wire. Each signal path can be opened using an isolator. Version: 12V DC

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Drawings	
Similar to illustration	Circuit diagram



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Accessories

Accessories (end plates)

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

General ordering data

 Type
 AP VSSC6
 Version

 Order No.
 1063110000
 VSSC, End plate

 GTIN (EAN)
 4032248947553
 VSSC, End plate

 Oty.
 50 ST

Testadapter and testsockets

Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

General ordering data

Contraction of the contraction o		
Туре	PS 2.3 RT	Version
Order No.	<u>0180400000</u>	Test adapter (terminal), 230 V, 20 mA
GTIN (EAN)	4008190060121	
Qty.	20 ST	

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 For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

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Accessories

General ordering data

Туре	DEK 5/5 MC NE WS	Version
Order No.	<u>1609801044</u>	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4008190397111	Weidmueller, white
Qty.	1000 ST	

SnapMark

SnapMark - this tag carrier has been developed especifically 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

Туре	SNAPMARK I	Version
Order No.	<u>1805880000</u>	Group markers, Terminal marker, 23 x 5 mm, Pitch in mm (P): 5.00
GTIN (EAN)	4032248273614	Weidmueller, white
Qty.	50 ST	