

VSSC6 TRLDMOV240VAC/DC**Weidmüller Interface GmbH & Co. KG**Klingenbergsstraße 26
D-32758 Detmold
Germanywww.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 com-
ponent. Any voltages greater than the permitted maxi-
mum 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.	1064860000
Type	VSSC6 TRLDMOV240VAC/DC
GTIN (EAN)	4032248830114
Qty.	5 items

VSSC6 TRLDMOV240VAC/DC

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Technical data

Approvals

Approvals



CSAEX



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

64 g

Temperatures

Storage temperature

-40 °C...80 °C

Operating temperature

-40 °C...70

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

1 nF

Input voltage, max. Ui

407 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
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Rated data IEC / EN

Number of poles	1	Rated voltage (AC)	240 V
Rated voltage (DC)	339 V	Rated current IN	12 A
Voltage type	AC/DC	Volume resistance	<0.1 Ω
Capacitance	0.5 nF	Standards	According to IEC61643-21
Discharge current, max. (8/20 µs)	12 kA	Requirements category acc. to IEC 61643-21	C1, C2
Insertion loss	≤ 0.5 dB	Max. continuous voltage, Uc (AC)	288 V
Max. continuous voltage, Uc (DC)	407 V	Surge current-carrying capacity C1	0.5 kA 8/20 µs 1 kV 1.2/50 µs
Overload - failure mode	Mode 1	Discharge current Imax (8/20µs) wire-PE6 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)
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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 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

Electrical data

Voltage type	AC/DC
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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.
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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	Short specification	Feed-through terminal with varistors (MOV)
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between the two signal 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.

between two signal lines and mounting rail potential. Each signal path can be opened using an isolator. TS 35 contact base. Version: 240 V UC

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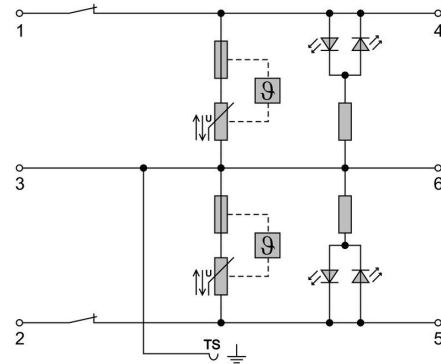
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Drawings



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	
Qty.	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

Type	PS 2.3 RT	Version
Order No.	0180400000	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

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

SnapMark



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