

**VSSC6 RS232****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Overvoltage protection for RS232 data interfaces

Protective module for mounting rail or as socket-adaptor enclosure

Serial interface for point-to-point connections up to 20 kBit/s earth-related voltage signal: logical one (mark) -15 V to -3 V logical zero (space) +3 V to +15 V max. signal level +/-15 V Cable length up to 20 m, depending on the transmission rate.

**General ordering data**

Version	Surge protection for instrumentation and control, Surge protection for measurement and control, $U_P(L/N-PE) \leq 100 \text{ V}$
Order No.	<a href="#">1064990000</a>
Type	VSSC6 RS232
GTIN (EAN)	4032248830237
Qty.	10 pc(s).

Creation date August 17, 2023 12:55:24 PM CEST

Catalogue status 04.08.2023 / We reserve the right to make technical changes.

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

Depth	81 mm	Depth (inches)	3.189 inch
Height	88.5 mm	Height (inches)	3.484 inch
Width	6.2 mm	Width (inches)	0.244 inch
Net weight	40.2 g		

**Temperatures**

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

**Probability of failure**

SIL in compliance with IEC 61508	3	MTTF	1,502 a
SFF	95.39 %	λges	76
PFH in 1*10 <sup>-9</sup> per hour	3.5		

**Rated data UL**

Certificate No. (UL)	E311081	UL certificate	UL Zertifikat
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**CSA protection data**

Input current, max. I <sub>i</sub>	500 mA	Internal capacity, max. C <sub>i</sub>	7 nF
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**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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## Technical data

## Rated data IEC / EN

Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	10 kA	Discharge current $I_{max}$ (8/20 $\mu$ s) wire-wire	10 kA
Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	2.5 kA	Discharge current $I_n$ (8/20 $\mu$ s) wire-wire	2.5 kA
Discharge current, max. (8/20 $\mu$ s)	20 kA	Insertion loss	1.43 Mhz
Lightning test current $I_{imp}$ (10/350 $\mu$ s)	0.5 kA	Lightning test current, $I_{imp}$ (10/350 $\mu$ s)	0.5 kA
Max. continuous voltage, $U_c$ (DC)	15 V	Wire-PE	0.5 kA
Overload - failure mode	Modus 2	Number of poles	1
Pulse-reset capacity	$\leq 15$ ms	Protection level $U_p$ (typ.)	$\leq 100$ V
Rated voltage (DC)	12 V	Rated current $I_N$	500 mA
Signal transmission properties (-3 dB)	1.4 MHz	Requirements category acc. to IEC 61643-21	C2, C3, D1
Surge current-carrying capacity C2	2.5 kA 8/20 $\mu$ s 5 kV 1.2/50 $\mu$ s	Standards	IEC 61643-21
Surge current-carrying capacity D1	0.5 kA 10/350 $\mu$ s	Surge current-carrying capacity C3	10 A 10/1000 $\mu$ s
Volume resistance	1.8 $\Omega$ 10 %	Voltage type	AC

## Further details of approvals

GOST certificate	GOST-Zertifikat
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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 <sup>2</sup>	Clamping range, 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>
Connection cross-section, stranded, min.	0.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	4 mm <sup>2</sup>

## Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate
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## 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	Surge protection in a one piece, 6.2 mm wide DIN rail module for a RS 232 signal circuit with 12 V DC, 2-wire technology. A RS 232 data signal with max. 0.6A 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
		Surge protection in a one piece, 6.2 mm wide DIN rail module for a RS 232 signal circuit with 2-wire technology. Version: 12V DC

## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	71e97bb7-979f-4330-94c0-20c629bb05e3

## Important note

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.
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## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UL)	E31 1081

## Downloads

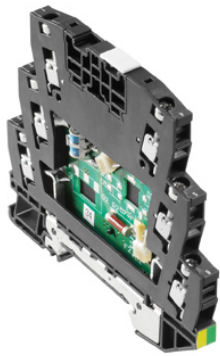
Approval/Certificate/Document of Conformity	<a href="#">SIL Paper</a> <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Engineering Data	<a href="#">WSCAD, EPLAN</a>
User Documentation	<a href="#">Beipackzettel / Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	

**VSSC6 RS232**

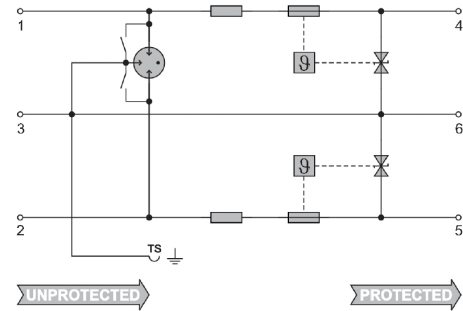
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**Drawings**



Similar to illustration



Circuit diagram

