

VSSC6 RS485 DP

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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 industrial and process automation as well as in building automation applications.

General ordering data

Type	VSSC6 RS485 DP
Order No.	1065010000
Version	Surge protection for instrumentation and control, 12 V, 500 mA, IEC 61643-21
GTIN (EAN)	4032248830244
Qty.	10 pc(s).

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Technische Daten

Dimensions and weights

Width	6.2 mm	Height	88.5 mm
Depth	81 mm	Net weight	42 g

Temperatures

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

Probability of failure

λ_{ges}	60	MTTF	1,903 Years
PFH in $1 \cdot 10^{-9}$ per hour	3.25	SFF	94.58 %
SIL in compliance with IEC 61508	3		

General data

Colour	Black	Isolating function	No
Mounting rail	TS 35	Optical function display	No
Protection degree	IP 20	Segment	Instrumentation and Control
UL 94 flammability rating	V-0		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Interference voltage

Protection level on output side Wire-PE 1kV/ μ s, typically	94 V
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Protection level

Protection level, U_P wire - PE	94 V
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technical data

Rated voltage (DC)	12 V	Max. continuous voltage, U_c (DC)	15 V
Discharge current I_n (8/20 μ s) wire-wire	2.5 kA	Discharge current I_{max} (8/20 μ s) wire-wire	10 kA
Discharge current I_n (8/20 μ s) wire-PE	2.5 kA	Discharge current I_{max} (8/20 μ s) wire-PE	10 kA
Discharge current, max. (8/20 μ s)	20 kA	Protection level U_P (typ.)	94 V
Standards	IEC 61643-21	Colour	Black
Humidity	5...96 %	Requirements category acc. to IEC 61643-21	C2, C3, D1
Lightning test current I_{imp} (10/350 μ s)	0.5 kA	Volume resistance	1.8 Ω 10 %
Residual voltage, U_P typical	94 V	Overload - failure mode	Modus 2

Connection data

Clamping range, rated connection, min.	0.5 mm ²	Clamping range, rated connection, max.	4 mm ²
Wire connection cross section, stranded, rated connection, min.	0.5 mm ²	Wire connection cross section, stranded, rated connection, max.	4 mm ²
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.8 Nm

Erstellungs-Datum December 17, 2013 9:33:22 AM CET

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Technische Daten

Further details of approvals

GOST certificate	GOST-Zertifikat
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Rated data UL

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

ETIM 3.0	EC000943	UNSPSC	30-21-19-21
eClass 5.1	27-13-08-01	eClass 6.2	27-13-08-05
eClass 7.1	27-13-08-05		

Product information

Descriptive text ordering data	End plate AP VSSC6 1063110000
Descriptive text accessories	Screwdrivers: Torx® 9009170000 Slot 0.8x4.0 9008340000 EMC Set: 1067470000 Marker: WS10/6 1818400000; DEK 6 0468560000; DEK 5 1768260000; SNAPMARK 1805880000

Approvals

Approvals



ROHS	Conform
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Probability of failure

SIL PAPER	SIL Paper
3D Modell	

Downloads

Package insert	Instruction sheet VSSC
SIL PAPER	SIL Paper
Declaration of Conformity	CE document
3D Modell	

VSSC6 RS485 DP**Weidmüller Interface GmbH & Co. KG**

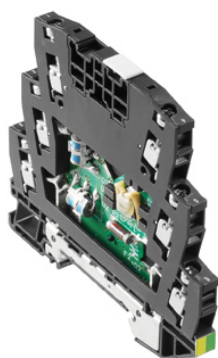
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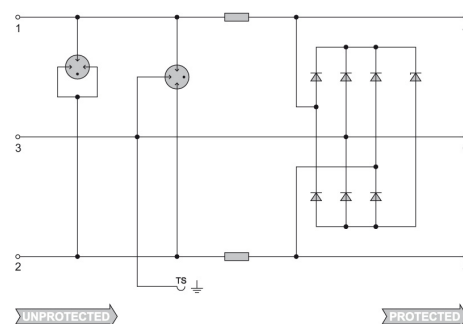
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Similar to illustration



Circuit diagram

