

VSSC
VSSC4 CL 24VAC/DC 0.5A**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

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Germany

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www.weidmueller.com



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	VSSC4 CL 24VAC/DC 0.5A
Order No.	1063730000
Version	Surge protection for instrumentation and control, 24 V, 34 V, 500 mA, IEC 61643-21
GTIN (EAN)	4032248829088
Qty.	10 pc(s).

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Technical data

Dimensions and weights

Width	6.2 mm	Width (inches)	0.244 inch
Height	76 mm	Height (inches)	2.992 inch
Depth	58.5 mm	Depth (inches)	2.303 inch
Net weight	26.6 g		

Temperatures

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

Probability of failure

λges	19	MTTF	6,008 Jahre
PFH in 1*10 ⁻⁹ per hour	1.95	SFF	89.74 %
SIL in compliance with IEC 61508	2		

CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I _I	500 mA
Input voltage, max. U _i	42 V	Internal capacity, max. C _I	1 nF
Internal inductance, max. L _i	0 μH		

General data

Colour	Black	Design	Terminal
Isolating function	No	Mounting rail	TS 35
Optical function display	No	Protection degree	IP20
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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Rated data IEC / EN

Discharge current I _{max} (8/20μs) wire-PE	5 kA	Discharge current I _{max} (8/20μs) wire-wire	5 kA
Discharge current I _n (8/20μs) wire-PE	2.5 kA	Discharge current I _n (8/20μs) wire-wire	2.5 kA
Discharge current, max. (8/20 μs)	10 kA	Fuse	0.5 A
Insertion loss	3.45 MHz	Lightning test current I _{imp} (10/350 μs)	0.5 kA
Lightning test current, I _{imp} (10/350 μs)		Max. continuous voltage, U _c (AC)	30 V
Wire-PE	0.5 kA	Overload - failure mode	Modus 2
Max. continuous voltage, U _c (DC)	42 V	Pulse-reset capacity	≤ 150 ms
Protection level U _p (typ.)	< 1000 V	Rated voltage (AC)	24 V
Rated current I _N	500 mA	Requirements category acc. to IEC 61643-21	C2, C3, D1
Rated voltage (DC)	34 V	Standards	IEC 61643-21
Signal transmission properties (-3 dB)	3.4 MHz	Surge current-carrying capacity C3	50 A 10/1000 μs
Surge current-carrying capacity C2	2.5 kA 8/20 μs 5 kV 1.2/50 μs	Voltage type	AC/DC
Surge current-carrying capacity D1	0.5 kA 10/350 μs		
Volume resistance	1.8 Ω 10 %		

Creation date 14 February 2018 16:07:38 CET

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Technical data**Further details of approvals**

GOST certificate

GOST-Zertifikat

Connection data

Type of connection	Screw connection, Torx® T15, Slotted 0.8 x 4	Stripping length, rated connection	8 mm
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.8 Nm
Clamping range, min.	0.5 mm²	Clamping range, max.	4 mm²
Wire cross-section, solid, min.	0.5 mm²	Wire cross-section, solid, max.	6 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	4 mm²
Connection cross-section, stranded, min.	0.5 mm²	Connection cross-section, stranded, max.	4 mm²

Rated data UL

Certificate No. (UL)

E311081

UL certificate

UL Zertifikat

Ratings IECEx/ATEX/cUL

cUL certificate

cUL Certificate

Classifications

ETIM 3.0	EC000943	ETIM 4.0	EC000381
ETIM 5.0	EC000943	ETIM 6.0	EC000943
UNSPSC	30-21-19-21	eClass 5.1	27-13-08-01
eClass 6.2	27-13-08-02	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 VSSC4 1063120000

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

DownloadsApproval/Certificate/Document of
Conformity[SIL Paper](#)
[CE PAPER](#)

Brochure/Catalogue

[CAT 4.4 ELECTR 16/17 EN](#)

Engineering Data

[EPLAN, WSCAD](#)

User Documentation

[Instruction sheet VSSC](#)

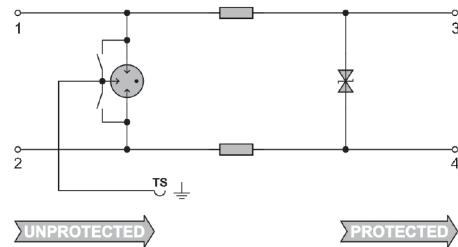
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Drawings



Similar to illustration



Circuit diagram

