

VSSC6TRCLFG24VAC/DC0.5A

Weidmüller Interface GmbH & Co. KG

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Germany

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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	VSSC6TRCLFG24VAC/DC0.5A
Order No.	1064310000
Version	Surge protection for instrumentation and control, 24 V, 34 V, 500 mA, IEC 61643-21
GTIN (EAN)	4032248829675
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	44 g

Temperatures

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

Probability of failure

λ_{ges}	29	MTTF	3,936 Years
PFH in $1 \cdot 10^{-9}$ per hour	1.95	SFF	93.28 %
SIL in compliance with IEC 61508	3		

General data

Colour	Black	Isolating function	Yes
Mounting rail	TS 35	Optical function display	No
Protection degree	IP 20	Segment	Instrumentation and Control
Testing option	Functional screw with test plug receptacle, connections 1, 2, 4, 5	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-wire 1 kV/ μ s, typically	70 V	Protection level on output side Wire-PE 1kV/ μ s, typically	1,632 V
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Protection level

Protection level, U_P GND - PE	800 V	Protection level, U_P wire - PE	1,632 V
Protection level, U_P wire - wire	90 V		

technical data

Rated voltage (AC)	24 V	Rated voltage (DC)	34 V
Max. continuous voltage, U_c (AC)	30 V	Max. continuous voltage, U_c (DC)	42 V
Highest continuous voltage (AC)	30 V	Discharge current I_n (8/20 μ s) wire-wire	2.5 kA
Discharge current I_{max} (8/20 μ s) wire-wire	5 kA	Discharge current I_n (8/20 μ s) wire-PE	2.5 kA
Discharge current I_{max} (8/20 μ s) wire-PE	5 kA	Fuse, max.	0.5 A
Discharge current, max. (8/20 μ s)	10 kA	Protection level U_P (typ.)	≤ 85 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	1,632 V	Voltage type	AC/DC
Dielectric strength at FG against PE	≥ 500 V	Overload - failure mode	Modus 2

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Technische Daten

Connection data

Clamping range, rated connection, min. 0.5 mm²Wire connection cross section, stranded,
rated connection, min. 0.5 mm²

Tightening torque, min. 0.5 Nm

Clamping range, rated connection, max. 4 mm²Wire connection cross section, stranded,
rated connection, max. 4 mm²

Tightening torque, max. 0.8 Nm

Further details of approvals

GOST certificate

GOST-Zertifikat

Rated data UL

Certificate No. (UL)

E311081

UL certificate

UL Zertifikat

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

Screwdriver: Torx® 9009170000 Slot 0.8x4.0 9008340000 Test plug PS2.3 0180400000 EMC Set: 1067470000 Marker: WS10/6 1818400000; DEK 6 0468560000; DEK 5 176826; SNAPMARK 1805880000

Approvals

Approvals



ROHS

Conform

Probability of failure

SIL PAPER

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Package insert

[Instruction sheet VSSC](#)

SIL PAPER

[SIL Paper](#)

Declaration of Conformity

[CE document](#)[3D Modell](#)

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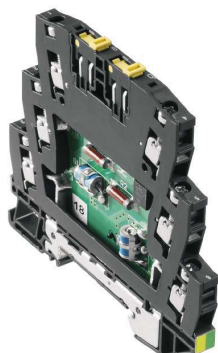
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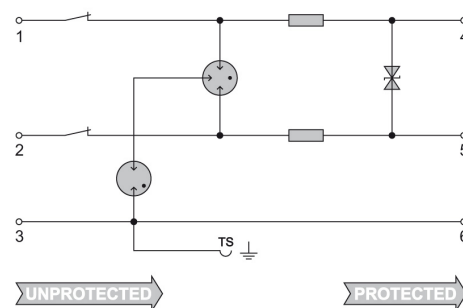
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Zeichnungen



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Circuit diagram

