

VSSC6TRCLFG24VAC/DC EX**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

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

Order No.	1066490000
Type	VSSC6TRCLFG24VAC/DC EX
Version	Surge protection for instrumentation and control
GTIN (EAN)	4032248820122
Qty.	5 pc(s).

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Technical data**Dimensions and weights**

Width	12.2 mm	Height	88.5 mm
Depth	81 mm	Net weight	43.4 g

Temperatures

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

Probability of failure

λ_{ges}	19	MTTF	6,008 Years
PFH in $1 \cdot 10^{-9}$ per hour	1.95	SFF	89.74 %
SIL in compliance with IEC 61508	2		

General data

Colour	Light Blue	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	900 V
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Protection level

Protection level, U_P wire - PE	900 V	Protection level, U_P wire - wire	90 V
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technical data

Rated voltage (AC)	24 V	Rated voltage (DC)	34 V
Rated current	300 mA	Max. continuous voltage, U_c (AC)	30 V
Max. continuous voltage, U_c (DC)	42 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	Discharge current, max. (8/20 μ s)	10 kA
Protection level U_P (typ.)	≤ 1870 V	Standards	IEC61643-21:2009, DIN EN 60079-0:2009, DIN EN 60079-26:2007, DIN EN 61241-11:2006
Colour	Light Blue	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
Dielectric strength at FG against PE	≥ 500 V	Overload - failure mode	Modus 2

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Technical data

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

EX protection data

Input power, max. P _I	0.75 W	Internal capacitance, max. C _I	1 nF
Internal inductance, max. L _I	0 µH	Temperature class T4/135°C (-40°C ... +120 °C) li	300 mA
Temperature class T5/100°C (-40 °C ... +85 °C) li	300 mA	Temperature class T6/85 °C (-40 °C ... +70 °C) li	300 mA

Further details of approvals

GOST certificate	GOST-Zertifikat
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Rated data UL

UL certificate	UL Zertifikat
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Ratings IECEx/ATEX

ATEX certificate	ATEX Certificate	IEC Ex certificate	IECEX Zertifikat
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Classifications

ETIM 3.0	EC000943	UNSPSC	30-21-19-21
eClass 4.1	27-13-08-01	eClass 5.1	27-13-08-01
eClass 6.2	27-14-02-01	eClass 7.1	27-13-08-05

Approvals

Approvals



ROHS	Conform
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Probability of failure

SIL PAPER	SIL Paper
3-D model	

Downloads

Package insert	Instruction sheet VSSC
Declaration of Conformity	K378_02_11.pdf
PDF	Type examination certificate
3-D model	

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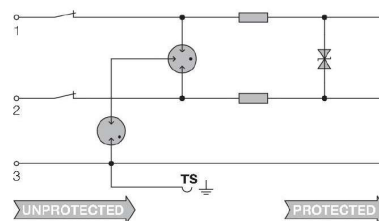
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Similar to illustration



Circuit diagram

