

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

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

General ordering data

Version	Surge protection for instrumentation and control, 24 V, 34 V, 500 mA, IEC 61643-21, HART- compatible
Order No.	<u>1064310000</u>
Туре	VSSC6TRCLFG24VAC/DC0.5A
GTIN (EAN)	4032248829675
Qty.	10 pc(s).



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Technical data

-			
Dim	ensions	and	weights

Depth	81 mm	Depth (inches)	3.189 inch
Height	88.5 mm	Height (inches)	3.484 inch
Net weight	44 g	Width	6.2 mm
Width (inches)	0.244 inch		

Temperatures

Storage temperature	-40 °C80 °C	Operating temperature	-40 °C70 °C
Humidity	5 96 %		

Probability of failure

SIL PAPER	SIL Paper	SIL in compliance with IEC 61508	3
MTTF	3,936 Jahre	SFF	93.28 %
λges	29	PFH in 1*10 ⁻⁹ per hour	1.95

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL Zertifikat

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 uH			

General data

			-
Colour	black	Design	Terminal
Isolating function	Yes	Optical function display	No
Protection degree	IP20	Rail	TS 35
Segment		Testing option	Functional screw with
	Measurement - Monitoring		test plug receptacle,
	- Setting		connections 1, 2, 4, 5
UL 94 flammability rating		Version	Surge protection for
	V-0		measurement and control

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III



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Rated data IEC / EN

Dielectric strength at FG against PE	≥ 500 V	Discharge current I _{max} (8/20µs) wire-PE	5 kA
Discharge current I _{max} (8/20µs) wire-		Discharge current I _n (8/20µs) wire-PE	
wire	5 kA		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	250 MHz
Lightning test current I _{imp} (10/350 μs)		Lightning test current, I _{imp} (10/350 μs)	
·	0.5 kA	Wire-PE	0.5 kA
Max. continuous voltage, Uc (AC)	30 V	Max. continuous voltage, Uc (DC)	42 V
Number of poles	1	Overload - failure mode	Modus 2
Protection level U _P (typ.)		Protection level U _P for C1 with	
	≤ 1650 V	500V/250A (wire-PE)	496 V
Protection level U _P for C1 with		Protection level U _P for C2 with	
500V/250A (wire-wire)	63 V	10kV/5kA (wire-PE)	1,980 V
Protection level U _P for C2 with	_	Protection level U _P for C3 with 1kV/µs	
10kV/5kA (wire-wire)	114 V	(wire-PE)	1,060 V
Protection level U _P for C3 with 1kV/µs		Protection level U _P for D1 with 0.5kA	
(wire-wire)	54 V	(wire-wire)	84 V
Protection level on output side Wire-wire		Protection level, U _P GND - PE	
1 kV/μs, typically	70 V		800 V
Protection level, U _P wire - wire	90 V	Pulse-reset capacity	≤ 20 ms
Rated current I _N	500 mA	Rated voltage (AC)	24 V
Rated voltage (DC)	_	Requirements category acc. to IEC	
	34 V	61643-21	C2, C3, D1
Signal transmission properties (-3 dB)		Standards	IEC 61643-21, HART-
	270 Mhz		compatible
Surge current-carrying capacity C2	2.5 kA 8/20 µs 5 kV	Surge current-carrying capacity C3	
	1.2/50 µs		50 A 10/1000 μs
Surge current-carrying capacity D1	0.5 kA 10/350 μs	Voltage type	AC/DC
Volume resistance	1.8 Ω 10 %		

Further details of approvals

GOST certificate GOST-Zertifikat

Connection data

Type of connection	Screw connection	Tightening torque, min.	0.5 Nm
Tightening torque, max.	0.8 Nm	Clamping range, min.	0.5 mm ²
Clamping range, max.	4 mm ²	Wire cross-section, solid, min.	0.5 mm ²
Wire cross-section, solid, max.		Conductor cross-section, flexible, A	EH .
	6 mm²	(DIN 46228-1), min.	0.5 mm ²
Conductor cross-section, flexible	e, AEH	Connection cross-section, stranded	l, min.
(DIN 46228-1), max.	4 mm ²		0.5 mm ²
Connection cross-section, strand	ded,		
max.	4 mm ²		

Ratings IECEx/ATEX/cUL

cUL certificate cUL Certificate

Classifications

ETIM 6.0	EC000943	ETIM 7.0	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

Creation date March 22, 2021 10:11:41 PM CET



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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 floatingground driven signal circuit with 24 V UC, 2-wire technology. Each signal path can be opened using an isolator. A current loop with max. 0.5 A can be protected here. When the terminal is fitted. there is a simultaneous sparkover gap created to the high-impedance earth between the mounting rail (earth) and the reference potential (ground) of the protective switch. Optical identification of the terminal based on the type of protected switching and the voltage level. The terminal can be labelled or

Short specification

Surge protection in a one piece, 6.2 mm wide DIN rail module for a floating-ground driven signal circuit with 2-wire technology and a potential-free earth cable. Version: 24V UC

Approvals

Approvals



marked.









ROHS	Conform
III File Number Search	F311081

Downloads

Approval/Certificate/Document of	SIL Paper
Conformity	<u>CE PAPER</u>
•	Declaration of Conformity
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet VSSC



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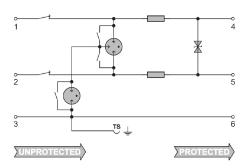
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Drawings



Similar to illustration



Circuit diagram

