

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com













Similar to illustration

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, Surge protection for measurement and control, U _P (L/N-PE) 780 V
Order No.	<u>1064250000</u>
Туре	VSSC6 TRCL60VAC/DC0.5A
GTIN (EAN)	4032248829613
Qty.	10 pc(s).



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Technical data

Dim	ensions	and	weights

Dimensions and weights			
D 4	0.4	D 11 (1 1)	0.400: 1
Depth	81 mm	Depth (inches)	3.189 inch
Height	88.5 mm	Height (inches)	3.484 inch
Width	6.2 mm	Width (inches)	0.244 inch
Net weight	43.4 g		
Temperatures			
	40.00 00.00	0	40.00 70.00
Storage temperature	-40 °C80 °C	Operating temperature	-40 °C70 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	70 °C
Humidity	596 %		
Probability of failure			
SIL in compliance with IEC 61508	2	MTTF	6,008 Jahre
SFF	89.74 %	λges	19
PFH in 1*10 ⁻⁹ per hour	1.95		. 9
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	106 V	Internal capacity, max. C _I	1 nF
Internal inductance, max. L _I	0 μΗ		
General data			
Calann	h la ala	Design	Tamasimal
Colour	black Yes	Design Optical function display	Terminal No
Isolating function			
Protection degree	IP20	Rail	TS 35
Segment	Measurement - Monitoring - Setting	Testing option	Functional screw with test plug receptacle, connections 1, 2, 4, 5
UL 94 flammability rating	V-0	Version	Surge protection for measurement and control
Insulation coordination acc.	to EN 50178		
Dellution operation	2	Commo valta no astrono	Ш
Pollution severity	2	Surge voltage category	III



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Technical data

Rated data IEC / EN

Discharge current I _{max} (8/20µs) wire-PE		Discharge current I _{max} (8/20µs) wire-	Discharge current I _{max} (8/20µs) wire-	
	5 kA	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	250 MHz	Lightning test current I _{imp} (10/350 μs)	0.5 kA	
Lightning test current, I _{imp} (10/350 μs	1	Max. continuous voltage, Uc (AC)		
Wire-PE	0.5 kA		75 V	
Max. continuous voltage, Uc (DC)	106 V	Number of poles	1	
Overload - failure mode	Modus 2	Protection level U _P (typ.)	780 V	
Protection level on output side Wire-wi 1 kV/µs, typically	re 200 V	Protection level, U _P wire - wire	260 V	
Pulse-reset capacity	≤ 20 ms	Rated current I _N	500 mA	
Rated voltage (AC)	60 V	Rated voltage (DC)	85 V	
Requirements category acc. to IEC 61643-21	C2, C3, D1	Signal transmission properties (-3 dB)	270 Mhz	
Standards	IEC 61643-21, HART- compatible	Surge current-carrying capacity C2	2.5 kA 8/20 μs 5 kV 1.2/50 μs	
Surge current-carrying capacity C3	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

Stripping length	10 mm	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 mm²
Wire cross-section, solid, min.	0.5 mm ²	Wire cross-section, solid, max.	6 mm²
Conductor cross-section, flexible, A	EH	Conductor cross-section, flexible, AEI	1
(DIN 46228-1), min.	0.5 mm ²	(DIN 46228-1), max.	4 mm ²
Connection cross-section, stranded	, min.	Connection cross-section, stranded,	
	0.5 mm ²	max.	4 mm ²

Ratings IECEx/ATEX/cUL

cUL certificate cUL Certificate		
	CUL certificate	

Classifications

ETIM 6.0	EC000943	ETIM 7.0	EC000943
ETIM 8.0	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	ECLASS 12.0	27-17-90-90



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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 floating-ground signal circuit with 60 V UC, 2wire technology.Each signal path can be opened using an isolator. A current loop with max. 0.6A can be protected here. When the terminal is fitted, a simultaneous electrically conducting contact is made between the mounting rail (earth) and the reference potential (ground) of the protection circuit in the terminal. Optical identification of the terminal based on the type of protected switching and the voltage level. The terminal can be labelled or marked.

Short specification

Surge protection in a one piece, 6.2 mm wide DIN rail module for a floatingground driven signal circuit with 2-wire technology and a common earth wire. Each signal path can be opened using an isolator. Version: 60V UC

Environmental Product Compliance

REACH SVHC Lead 7439-92-1

Important note

Product information Mode 2: State where the voltage-limiting part of the SPD was short-circuited due to a very low impedance within the SPD. The line is inoperable, but the measuring equipment is still protected by means of a short-

Approvals

Approvals









)	(JL)
•	LISTED

ROHS	Conform	
UL File Number Search	UL Website	
Certificate No. (UL)	E311081	

Downloads

Approval/Certificate/Document of	SIL Paper
Conformity	EU_Konformitätserklärung / EU_Declaration_of_Conformity
Engineering Data	CAD data – STEP
Engineering Data	WSCAD
User Documentation	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format
Brochures	



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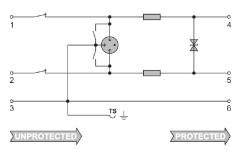
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Drawings



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Circuit diagram

