

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, Surge protection for measurement and control, $U_P(L/N-PE) \le 1650 \text{ V}$
Order No.	<u>1064310000</u>
Туре	VSSC6TRCLFG24VAC/DC0.5A
GTIN (EAN)	4032248829675
Qty.	10 pc(s).



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Technical data

D:		~~~	weights
DIIII	ensions	anu	weiunts

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	44 g		

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)	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

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.		Conductor cross-section, flexible, A	EH
	6 mm ²	(DIN 46228-1), min.	0.5 mm ²
Conductor cross-section, flexible,	AEH	Connection cross-section, stranded	l, min.
(DIN 46228-1), max.	4 mm ²		0.5 mm ²
Connection cross-section, strand	ed,		
max.	4 mm ²		

Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate	



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Technical data

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		

Tender specification sheets

Surge protection in a one Long specification 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

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

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-

potential (ground) of the protective switch.

of protected switching

and the voltage level. The

terminal can be labelled or

Optical identification of the terminal based on the type

circuit.

marked.

Approvals

Approvals



ROHS	Conform	
III File Number Search	F311081	

Downloads

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



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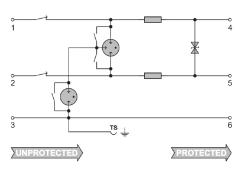
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Drawings



Similar to illustration



Circuit diagram





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Accessories

Test plugs



Test adapters and test plugs are used for the electrical connection between terminal blocks and the test equipment. In this way, an electrical contact can be established in the wired state and measurements can be done easily.

General ordering data

Type PS 2.3 RT
Order No. 0180400000
GTIN (EAN) 4008190060121
Oty. 20 pc(s).

version

Accessories, Test plug

Accessories (end plates)



End plates (AP) for the VSSC product series in light blue and black

General ordering data

Type AP VSSC6
Order No. 1063110000
GTIN (EAN) 4032248947553
Oty. 50 pc(s).

Version VSSC, End plate

Creation date January 20, 2022 3:48:12 AM CET



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Accessories

Blank



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- · Large range of ready-to-use markers
- · Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type DEK 5/5 MC NE WS
Order No. 1609801044
GTIN (EAN) 4008190397111

1,000 pc(s).

Version

Dekafix Term

Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00

Weidmueller, white

SnapMark

Qty.



SnapMark - this tag carrier has been developed especifically for the I-series double-level terminal IDK 1.5N. The flexible pivot mechanism allows cross-connections to be easily installed or removed. It can hold four DEK 5 labelling tags or two WS 10/5 Middle connector markers.

General ordering data

 Type
 SNAPMARK I
 Version

 Order No.
 1805880000
 Group markers, Terminal marker, 23 x 5 mm, Pitch in mm (P): 5.00

 GTIN (EAN)
 4032248273614
 Weidmueller, white

Oty. 50 pc(s).

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

<u>Weidmuller</u>: 1064310000