

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) 150 V
Order No.	<u>1354790000</u>
Туре	VSSC6TRSL24VAC/DC0.5A
GTIN (EAN)	4050118156744
Qty.	10 pc(s).



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Technical data

Dim	ension	a and	14/0i 2	hte

Dimensions and weights			
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	47 g		
Temperatures			
Storage temperature	-40 °C80 °C	Operating temperature	-40 °C70 °C
Humidity	596 %		
Probability of failure			
CIL in a small and a smith IEC 01500	3	NATTE	1.358 a
SIL in compliance with IEC 61508 SFF	96.67 %	MTTF	1,358 a 54
		λges	54
PFH in 1*10 ⁻⁹ per hour	1.8		
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	2 nF
Internal inductance, max. L _I	0 µH		
General data			
Number of poles	1	Protection degree	IP20
Colour	black		11 20
Insulation coordination acc.	to EN 50178		
Dallantian accomits	2	Common and the man and a man	
Pollution severity	2	Surge voltage category	III



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Rated data IEC / EN

Discharge current I _{max} (8/20µs) wire-	PE 10 kA	Discharge current I _n (8/20µs) wire-PE	2.5 kA
Discharge current, max. (8/20 µs)	20 kA	Fuse	0.5 A
Insertion loss	3.12 Mhz	Leakage current at U _n	2.8 mA
Lightning test current I _{imp} (10/350 µs	s)	Lightning test current, I _{imp} (10/350 μs)	
	1 kA	Wire-PE	1 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	
	150 V	500V/250A (wire-PE)	60 V
Protection level U _P for C1 with		Protection level U _P for C2 with	
500V/250A (wire-wire)	116 V	10kV/5kA (wire-PE)	108 V
Protection level U _P for C2 with		Protection level U _P for C3 with 1kV/µs	
10kV/5kA (wire-wire)	204 V	(wire-PE)	55 V
Protection level U_P for C3 with $1kV/\mu$	s	Protection level U _P for D1 with 0.5kA	
(wire-wire)	106 V	(wire-wire)	194 V
Pulse-reset capacity	≤ 20 ms	Rated current I _N	500 mA
Rated voltage (AC)	24 V	Rated voltage (DC)	34 V
Requirements category acc. to IEC		Signal transmission properties (-3 dB)	
61643-21	C2, C3, D1		3.2 MHz
Standards		Surge current-carrying capacity C2	2.5 kA 8/20 µs 5 kV
	IEC 61643-21		1.2/50 μs
Surge current-carrying capacity C3	10 A 10/1000 μs	Surge current-carrying capacity D1	1 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, Al	H	Connection cross-section, stranded	, min.
(DIN 46228-1), max.	4 mm ²		0.5 mm ²
Connection cross-section, stranded,			
max.	4 mm ²		

Electrical data

Voltage type AC/DC

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	ETIM 9.0	EC000943
ETIM 10.0	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
ECLASS 13.0	27-17-90-90	ECLASS 14.0	27-17-90-90
ECLASS 15.0	27-17-90-90		

Tender specification sheets

Long specification

Surge protection in a one piece, 6.2 mm wide DIN rail module for two binary, potential-free signal circuits with 24 V UC. Each signal path can be opened

signal path can be opened using an isolator. Signal indication via a green LED. 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 pro-

tected 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 two binary, potential-free signal circuits. Each signal path can be opened using an isolator. Signal indication via a green LED. Version: 24V UC

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	71e97bb7-979f-4330-94c0-20c629bb05e3

Important note

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

Approvals

Approvals	C ECSAEX CERTIFIED COVE USTED
pprovals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319227/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319238/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319252/-T1z1mm-S800/ https://mdcop.weidmueller.com/mediadelivery/rendition/900_319261/-T1z1mm-S800/
ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UL)	E311081



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Technical data

Downloads

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

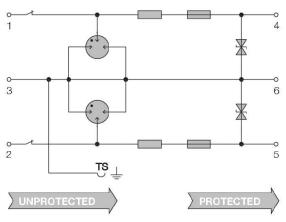


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Drawings



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Circuit diagram



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Accessories

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

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

1,000 pc(s).

Qty.

 Type
 DEK 5/5 MC NE WS
 Version

 Order No.
 1609801044
 Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00

 GTIN (EAN)
 4008190397111
 Weidmueller, white



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Accessories

SnapMark



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
Order No. 1805880000
GTIN (EAN) 4032248273614
Oty. 50 pc(s).

version

Group markers, Terminal marker, 23 x 5 mm, Pitch in mm (P): 5.00

Weidmueller, white

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

Test adapter (terminal), 230 V, 20 mA