

VSPC MOV 2CH 24V R**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



- Pluggable arrester with ungrounded varistors (MOV) for use as protection circuit for coils
- For applications as surge protection, external wire links to GND must be connected at the VSPC BASE FG (e.g. connection 8-10 and 9-5)
- Pluggable arrester, with no-interrupt and impedance-neutral plug-in and pull-out
- Can be tested with the V-TEST testing device
- Integrated PE foot in the VSPC BASE, safely discharges up to 20 kA (8/20 μ s) and 2.5 kA (10/350 μ s) to PE

General ordering data

Version	Surge protection for instrumentation and control, 24 V, 30 V, 10 A, IEC 61643-21
Order No.	8951650000
Type	VSPC MOV 2CH 24V R
GTIN (EAN)	4032248742899
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	69 mm	Depth (inches)	2.717 inch
Height	98 mm	Height (inches)	3.858 inch
Net weight	46 g	Width	17.8 mm
Width (inches)	0.701 inch		

Temperatures

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

Probability of failure

SIL PAPER	SIL Paper	SIL in compliance with IEC 61508	3
MTTF	1,479 Years	SFF	100 %
λges	77.2	PFH in 1*10 ⁻⁹ per hour	0

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL 497b Certificate
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CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input voltage, max. U _i	42 V
Internal capacity, max. C _i	2 nF	Internal inductance, max. L _i	0 μH

General data

Colour	orange	Design	Terminal, miscellaneous
Optical function display	green = OK; red = arrester is defective - replace	Protection degree	IP20
Segment	Measurement - Monitoring - Setting	UL 94 flammability rating	V-0
Version	with warning function / function indicator		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Rated data IEC / EN

Capacitance	14.5 nF
Discharge current $I_{\max}$ (8/20 μ s) wire-wire	1 kA
Discharge current I_n (8/20 μ s) wire-PE	2.5 kA
Fuse	10A
Lightning test current, I_{imp} (10/350 μ s) wire-wire	0.2 kA
Max. continuous voltage, U_c (DC)	38 V
Overload - failure mode	Mode 1
Protection level on output side Wire-wire 8/20 μ s, typically	95 V
Rated current I_N	10 A
Rated voltage (DC)	30 V
Signalling contact	U_N 250 V AC 0.1 A 1CO at VSPC R with VSPC control unit
Surge current-carrying capacity C1	< 1 kA 8/20 μ s
Surge current-carrying capacity C3	100 A 10/1000 μ s
Voltage type	AC/DC

Discharge current $I_{\max}$ (8/20 μ s) GND-PE	1 kA
Discharge current I_n (8/20 μ s) GND-PE	1 kA
Discharge current I_n (8/20 μ s) wire-wire	1 kA
Lightning test current, I_{imp} (10/350 μ s) GND-PE	0.5 kA
Max. continuous voltage, U_c (AC)	30 V
Number of poles	1
Protection level on output side Wire-wire 1 kV/ μ s, typically	80 V
Protection level, U_p wire - wire	200 V
Rated voltage (AC)	24 V
Requirements category acc. to IEC 61643-21	C1, C2, C3, D1
Standards	IEC 61643-21
Surge current-carrying capacity C2	1 kA 8/20 μ s
Surge current-carrying capacity D1	0.5 kA 10/350 μ s
Volume resistance	0.20 Ω

Further details of approvals

GOST certificate	GOST-Zertifikat
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Connection data

Type of connection	Pluggable in VSPC BASE
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Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate
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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

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Technical data

Tender specification sheets

Long specification

Surge protection plug for base element VSPC BASE 2/4CH, common mode voltage protection for two paired cables with integrated status display and remote monitoring option. Version: 230 V AC Single-stage protective circuitry in plug, consisting of varistor protection between the signal wires. Mechanical identification of the plug to the base element according to the switching type and rated voltage. Protected plug with coding pin and counter-profile for the base element. Optical identification of the protected plug based on the type of protected switching and the voltage level. It is possible to mark the plug.

Short specification

Surge protection plug for base element VSPC BASE 2/4CH, common mode voltage protection for two paired cables with integrated status display and remote monitoring option. Version: 24 V AC

Important note

Product information

External wire bridges must be used for connection to PE.

Approvals

Approvals



ROHS

Conform

UL File Number Search

E311081

Downloads

Approval/Certificate/Document of Conformity

[SIL Paper](#)
[CE PAPER](#)
[Declaration of Conformity](#)

Engineering Data

[STEP](#)

Engineering Data

[EPLAN, WSCAD](#)

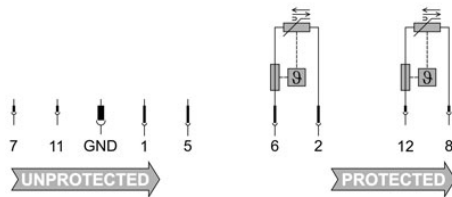
User Documentation

[Instruction sheet](#)
[Connection of VSPC MOV](#)

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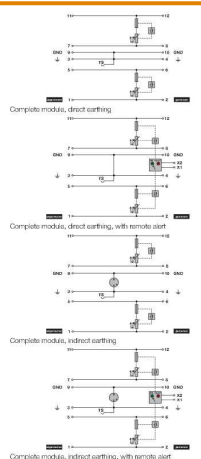
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Drawings
Electric symbol


Similar to illustration

Cate- gory	Testing pulse	Surge voltage	Surge current	Pulse Type
C1	Quick- rising edge	0.5 - 2 kV with 1.2/50 µs	0.25 - 1 kA mit 8/20 µs	300 Surge voltage arrester
C2	Quick- rising edge	2 - 10 kV with 1.2/50 µs	1 - 5 kA mit 8/20 µs	10 Surge voltage arrester
C3	Quick- rising edge	≥ 1 kV with 1 kV/µs	10 - 100 A mit 10/10000 µs	300 Surge voltage arrester
D1	High power	≥ 1 kV	0.5 - 2.5 kA mit 10/350 µs	2 Arrester for lightning current and surge voltages

Discharge capacity



Komplettmodul