

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, with warning function / function indicator
Order No.	8951650000
Type	VSPC MOV 2CH 24V R
GTIN (EAN)	4032248742899
Qty.	1 items

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Technical data

Approvals

Approvals



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

Dimensions and weights

Depth	69 mm	Depth (inches)	2.7165 inch
Height	98 mm	Height (inches)	3.8583 inch
Width	17.8 mm	Width (inches)	0.7008 inch
Net weight	46 g		

Temperatures

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

Probability of failure

SIL in compliance with IEC 61508	3	MTTF	1479 a
SFF	100 %	λges	77
PFH in 1*10 ⁻⁹ per hour	0		

Environmental Product Compliance

RoHS Compliance Status	Compliant
REACH SVHC	Lead 7439-92-1
SCIP	f2b213ab-1140-4c72-b593-ecf770b18c25

Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL 497b Certificate - PDF/ E311081VOL1SEC2.pdf (application/pdf)
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CSA protection data

Gas group D	IIA	Gas groups A, B	IIC
Gas group C	IIB	Internal inductance, max. LI	0 µH
Internal capacity, max. CI	2 nF		

General data

Optical function display	green = OK; red = arrester is defective - replace	Segment	Measurement - Monitoring - Setting
Version	with warning function / function indicator	Colour	orange
Protection degree	IP20		

Insulation coordination acc. to EN 50178

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

Number of poles	1	Rated voltage (AC)	24 V
Rated current I _N	10 A	Protection level on output side Wire-wire	80 V
Protection level on output side Wire-wire	95 V	1 kV/μs, typically	
8/20 μs, typically		Protection level, UP wire - wire	80 V
Voltage type	AC/DC	Fuse protection	10A
Volume resistance	0.20 Ω	Capacitance	14.5 nF
Standards	IEC 61643-21	Requirements category acc. to IEC 61643-21	C1, C2, C3, D1
Lightning test current, I _{imp} (10/350 μs)	0.2 kA	Surge current-carrying capacity D1	0.5 kA 10/350 μs
wire-wire		Surge current-carrying capacity C3	100 A 10/1000 μs
Surge current-carrying capacity C1	<1 kA 8/20 μs	Overload - failure mode	Mode 1
Lightning test current, I _{imp} (10/350 μs)	0.5 kA	Rated load current I _L	10 A
GND-PE		Discharge current I _n (8/20 μs) wire-PE	2.5 kA
Discharge current I _{max} (8/20 μs) GND-PE	1 kA	Discharge current I _n (8/20 μs) GND-PE	1 kA
Discharge current I _n (8/20 μs) wire-wire	1 kA		
Discharge current I _{max} (8/20 μs) wire-wire	1 kA		
Surge current-carrying capacity C2	1 kA 8/20 μs		

Further details of approvals

GOST certificate	GOST-Zertifikat - PDF/7950_n1-n4.pdf (application/pdf)
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Connection data

Type of connection	Pluggable in VSPC BASE
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Electrical data

Voltage type	AC/DC
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General data

Number of poles	1	Protection degree	IP20
Colour	orange		

Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate - pdf/ VSPC.PDF (application/pdf)
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Guarantee

Time interval	5 years
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Important note

Product information	External wire bridges must be used for connection to PE. Mode 1: State where the voltage-limiting part of the SPD was disconnected. The voltage limiting function is no longer available, but the cable is still functional.
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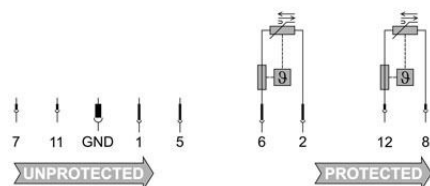
www.weidmueller.com**Technical data****Classifications**

ETIM 8.0	EC000943	ETIM 9.0	EC000943
ETIM 10.0	EC000943	ECLASS 14.0	27-17-15-01
ECLASS 15.0	27-17-15-01		

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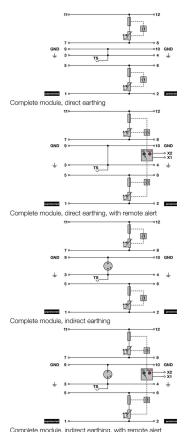
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Drawings
Electric symbol


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