

VSPC VSPC MOV 2CH 230V R

Weidmüller Interface GmbH & Co. KG

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Germany

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- 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

Type	VSPC MOV 2CH 230V R
Order No.	8951660000
Version	Surge protection for instrumentation and control, 230 V, 230 V, 10 A, IEC 61643-21
GTIN (EAN)	4032248742905
Qty.	1 pc(s).

Creation date April 27, 2020 4:31:59 PM CEST

Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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Technical data**Dimensions and weights**

Width	17.8 mm	Width (inches)	0.701 inch
Height	98 mm	Height (inches)	3.858 inch
Depth	69 mm	Depth (inches)	2.717 inch
Net weight	47 g		

Temperatures

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

Probability of failure

λ_{ges}	77.2	MTTF	1,479 Years
PFH in $1 \cdot 10^{-9}$ per hour	0	SFF	100 %
SIL in compliance with IEC 61508	3		

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	385 V
Internal capacity, max. C_i	2 nF	Internal inductance, max. L_i	0 μ H

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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Technical data

Rated data IEC / EN

Rated voltage (AC)	230 V	Rated voltage (DC)	230 V
Voltage type	AC/DC	Max. continuous voltage, U_c (AC)	275 V
Max. continuous voltage, U_c (DC)	350 V	Discharge current I_n (8/20 μ s) GND-PE	1 kA
Discharge current I_{max} (8/20 μ s) GND-PE	1 kA	Discharge current I_n (8/20 μ s) wire-PE	2.5 kA
Discharge current I_n (8/20 μ s) wire-wire	1 kA	Discharge current I_{max} (8/20 μ s) wire-wire	1 kA
Lightning test current, I_{imp} (10/350 μ s) GND-PE	0.5 kA	Lightning test current, I_{imp} (10/350 μ s) wire-wire	0.2 kA
Fuse	10A	Standards	IEC 61643-21
Protection level on output side Wire-wire 1 kV/ μ s, typically	600 V	Protection level on output side Wire-wire 8/20 μ s, typically	700 V
Capacitance	720 pF	Number of poles	1
Overload - failure mode	Mode 1	Protection level, U_p wire - wire	850 V
Rated current I_N	10 A	Requirements category acc. to IEC 61643-21	C1, C2, C3, D1
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 C2	1 kA 8/20 μ s	Surge current-carrying capacity C3	50 A 10/1000 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

Connection data

Type of connection Pluggable in VSPC BASE

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	UNSPSC	30-21-19-21

Product information

Product information External wire bridges must be used for connection to PE.

Approvals

Approvals



ROHS Conform

Data sheet**VSPC
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Technical data**Downloads**

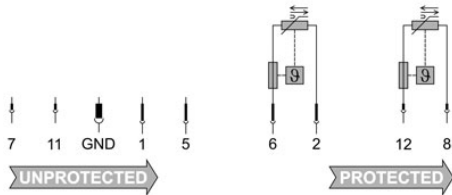
Approval/Certificate/Document of Conformity	SIL Paper CE PAPER Declaration of Conformity
Brochure/Catalogue	CAT 4.4 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
User Documentation	Instruction sheet Connection of VSPC MOV

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Drawings

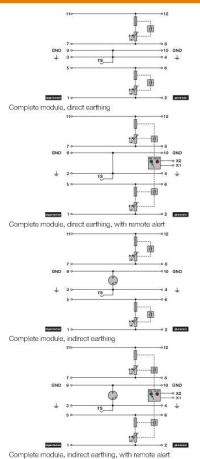
Electric symbol



Similar to illustration

Cate- gory	Testing pulse	Surge voltage	Surge current	Pulse	Type
C1	Quick-rising edge	0.5 - 2 kV 1.2/50 µs	0.25 - 1 kA mit 8/20 µs	300	Surge voltage arrester
C2	Quick-rising edge	2 - 10 kV 1.2/50 µs	1 - 5 kA mit 8/20 µs	10	Surge voltage arrester
C3	Quick-rising edge	≥ 1 kV 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