

VSPC GDT 2CH 90V**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, 48 V, 68 V, 2 A, According to IEC61643-21
Order No.	8924570000
Type	VSPC GDT 2CH 90V
GTIN (EAN)	4032248696215
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	69 mm	Depth (inches)	2.717 inch
Height	90 mm	Height (inches)	3.543 inch
Net weight	40 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	10,378 Years	SFF	100 %
λ_{ges}	11	PFH in $1 \cdot 10^{-9}$ 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	72 V
Internal capacity, max. C_i	0 nF	Internal inductance, max. L_i	0 μ H

General data

Colour	orange	Design	Terminal, miscellaneous
Optical function display	No	Protection degree	IP20
Segment	Measurement - Monitoring - Setting	UL 94 flammability rating	V-0
Version	without 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	9.37 pF
Discharge current $I_{\max}$ (8/20 μ s) wire-wire	2 x 10 kA
Discharge current I_n (8/20 μ s) wire-PE	2.5 kA
Fuse	2 A
Lightning test current, I_{imp} (10/350 μ s) wire-wire	2 x 0.2 kA
Max. continuous voltage, U_c (DC)	72 V
Overload - failure mode	Modus 2
Protection level on output side Wire-PE 1kV/ μ s, typically	650 V
Protection level on output side Wire-wire 8/20 μ s, typically	1000 V
Protection level, U_p wire - wire	650 V
Rated voltage (AC)	48 V
Requirements category acc. to IEC 61643-21	C1, C2, C3, D1
Standards	According to IEC61643-21
Surge current-carrying capacity C2	5 kA 8/20 μ s
Surge current-carrying capacity D1	2.5 kA 10/350 μ s
Volume resistance	0.20 Ω

Discharge current $I_{\max}$ (8/20 μ s) GND-PE	10 kA
Discharge current I_n (8/20 μ s) GND-PE	2.5 kA
Discharge current I_n (8/20 μ s) wire-wire	2 x 2.5 kA
Lightning test current, I_{imp} (10/350 μ s) GND-PE	0.2 kA
Max. continuous voltage, U_c (AC)	50 V
Number of poles	1
Protection level U_p (typ.)	< 1000 V
Protection level on output side Wire-wire 1 kV/ μ s, typically	650 V
Protection level, U_p wire - PE	1,000 V
Rated current I_N	2 A
Rated voltage (DC)	68 V
Signalling contact	No
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

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	Short specification
Surge protection plug for base element VSPC BASE 2/4CH, coarse common mode voltage protection for two paired cables. Version: 90 V AC Single-stage protective circuitry in plug, consisting of coarse protection between the signal wires and the signal ground/ground/earth. 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.	Surge protection plug for base element VSPC BASE 2/4CH, coarse common mode voltage protection for two paired cables. Version: 90 V AC

Approvals

Approvals



ROHS	Conform
UL File Number Search	E311081

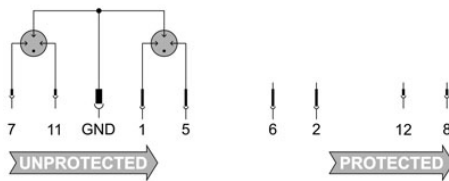
Downloads

Approval/Certificate/Document of Conformity	SIL Paper CE PAPER Declaration of Conformity
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet

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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

