

VSPC

VSPC 2CL HF 12VDC R

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

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- Monitoring function with status indicator and message function
- Pluggable arrester, with no-interrupt and impedance-neutral plug-in and pull-out
- Can be tested with the V-TEST testing device
- High transmission rates with minimal attenuation values
- Space-saving design, with alert function and no extra space required
- Can be used in compliance with the IEC 62305 (**D1, C1 and C2**) installation standard
- Integrated PE foot, safely discharges up to 20 kA (8/20 μ s) and 2.5 kA (10/350 μ s) to PE
- Quick identification in the electrical cabinet with coloured labelling of the voltage levels
- Coding element for the different voltage levels provides safety

General ordering data

Type	VSPC 2CL HF 12VDC R
Order No.	8951690000
Version	Surge protection for instrumentation and control, 12 V, 450 mA, IEC 61643-2 1
GTIN (EAN)	4032248742936
Qty.	1 pc(s).

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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	48 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

λges	45	MTTF	2,537 Years
PFH in 1*10 ⁻⁹ per hour	4.7	SFF	94.28 %
SIL in compliance with IEC 61508	3		

CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input voltage, max. U _i	15 V
Internal capacity, max. C _i	10 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	Instrumentation and Control	UL 94 flammability rating	V-0
Version	with warning function / function indicator	protected current loops	2

Insulation coordination acc. to EN 50178

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

Discharge current I_{max} (8/20 μ s) GND-PE	10 kA	Discharge current I_{max} (8/20 μ s) wire-PE	2 x 10 kA
Discharge current I_{max} (8/20 μ s) wire-wire	10 kA	Discharge current I_n (8/20 μ s) GND-PE	2.5 kA
Discharge current I_n (8/20 μ s) wire-PE	2.5 kA	Discharge current I_n (8/20 μ s) wire-wire	2.5 kA
Fuse	0.5 A	Lightning test current, I_{imp} (10/350 μ s) GND-PE	2.5 kA
Lightning test current, I_{imp} (10/350 μ s) Wire-PE	2.5 kA	Lightning test current, I_{imp} (10/350 μ s) wire-wire	2.5 kA
Max. continuous voltage, U_c (DC)	15 V	Overload - failure mode	Modus 2
Protection level U_p (typ.)	< 800 V	Protection level on output side Wire-PE 1kV/ μ s, typically	450 V
Protection level on output side Wire-wire 1 kV/ μ s, typically	25 V	Protection level on output side Wire-wire 8/20 μ s, typically	25 V
Protection level, U_p GND - PE	800 V	Protection level, U_p wire - PE	450 V
Protection level, U_p wire - wire	25 V	Pulse-reset capacity	\leq 80 ms
Rated current I_N	450 mA	Rated voltage (DC)	12 V
Requirements category acc. to IEC 61643-21	C1, C2, C3, D1	Signal transmission properties (-3 dB)	104 MHz
Signalling contact	U_N 250 V AC 0.1 A 1CO at VSPC R with VSPC CONTROL UNIT	Standards	IEC 61643-21
Surge current-carrying capacity C1	< 1 kA 8/20 μ s	Surge current-carrying capacity C2	5 kA 8/20 μ s
Surge current-carrying capacity C3	100 A 10/1000 μ s	Surge current-carrying capacity D1	2.5 kA 10/350 μ s
Voltage type	DC	Volume resistance	2.20 Ω

Further details of approvals

GOST certificate GOST-Zertifikat

Rated data UL

Certificate No. (UL) E311081 UL certificate UL 497b Certificate

Ratings IECEx/ATEX/cUL

cUL certificate cUL Certificate

Classifications

ETIM 3.0	EC000943	ETIM 4.0	EC000381
ETIM 5.0	EC000943	ETIM 6.0	EC000943
UNSPSC	30-21-19-21	eClass 5.1	27-13-08-01
eClass 6.2	27-13-08-02	eClass 7.1	27-13-08-09
eClass 8.1	27-13-08-11	eClass 9.0	27-13-08-11
eClass 9.1	27-13-08-07		

Product information

 Descriptive text technical data The associated VSPC base element should be ordered with this. The dimension information provided refers to the complete module.
 Instructions for accessories EMC Set: 1067470000 Marker: DEK 5

Data sheet**VSPC
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Technical data**Approvals**

Approvals



ROHS

Conform

Downloads

Approval/Certificate/Document of Conformity	SIL Paper CE PAPER
Brochure/Catalogue	CAT 4.4 ELECTR 16/17 EN
Engineering Data	EPLAN_WSCAD
Engineering Data	STEP
User Documentation	Instruction sheet

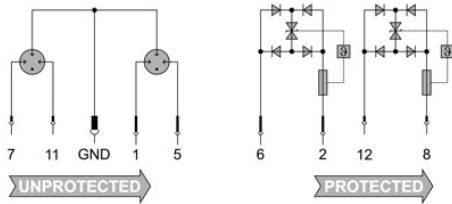
Data sheet

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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 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

