

VSPC
VSPC GDT 2CH 150VAC/230VDC**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

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

Type	VSPC GDT 2CH 150VAC/230VDC
Order No.	8924590000
Version	Surge protection for instrumentation and control, 110 V, 150 V, 2 A, According to IEC61643-21
GTIN (EAN)	4032248696239
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Width	17.8 mm	Width (inches)	0.701 inch
Height	90 mm	Height (inches)	3.543 inch
Depth	69 mm	Depth (inches)	2.717 inch
Net weight	40 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	11	MTTF	10,378 Years
PFH in 1*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	600 V
Internal capacity, max. C _i	0 nF	Internal inductance, max. L _i	0 μH

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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Technical data

Rated data IEC / EN

Rated voltage (AC)	110 V	Rated voltage (DC)	150 V
Voltage type	AC/DC	Max. continuous voltage, U _c (AC)	125 V
Max. continuous voltage, U _c (DC)	180 V	Discharge current I _n (8/20µs) GND-PE	2.5 kA
Discharge current I _{max} (8/20µs) GND-PE	10 kA	Discharge current I _n (8/20µs) wire-PE	2.5 kA
Discharge current I _n (8/20µs) wire-wire	2 x 2.5 kA	Discharge current I _{max} (8/20µs) wire-wire	2 x 10 kA
Lightning test current, I _{imp} (10/350 µs) GND-PE	0.2 kA	Lightning test current, I _{imp} (10/350 µs) wire-wire	2 x 0.2 kA
Fuse	2 A	Standards	According to IEC61643-21
Protection level U _p (typ.)	< 1000 V	Protection level on output side Wire-PE 1kV/µs, typically	800 V
Protection level on output side Wire-wire 1 kV/µs, typically	450 V	Protection level on output side Wire-wire 8/20 µs, typically	800 V
Protection level, U _p wire - PE	800 V	Capacitance	7.45 pF
Number of poles	1	Overload - failure mode	Modus 2
Protection level, U _p wire - wire	800 V	Rated current I _N	2 A
Requirements category acc. to IEC 61643-21	C1, C2, C3, D1	Signalling contact	No
Surge current-carrying capacity C1	< 1 kA 8/20 µs	Surge current-carrying capacity C2	5 kA 8/20 µs
Surge current-carrying capacity C3	100 A 10/1000 µs	Surge current-carrying capacity D1	2.5 kA 10/350 µs
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

Approvals

Approvals



ROHS Conform

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

Creation date May 1, 2020 5:03:49 AM CEST

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

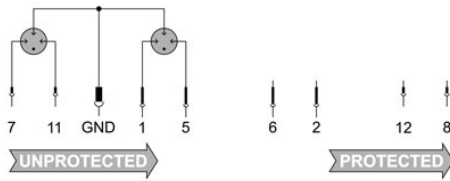
Data sheet

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Drawings

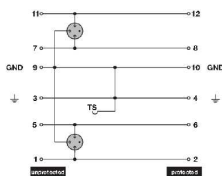
Electric symbol



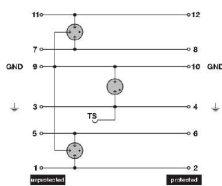
Similar to illustration

Cate- gory	Testing pulse	Surge voltage	Surge current	Pulse	Type
C1	Quick-rising edge	0.5 - 2 kV 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 direkte Erdung



Komplettmodul indirekte Erdung

Komplettmodul

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Mating connector (fully pluggable)

Direct earthing



Base element for the pluggable VSPC arrester, integrated PE foot in impedance-neutral VSPC BASE. Can safely discharge up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to the PE.

General ordering data

Type	VSPC BASE 2/4CH	Version
Order No.	8924740000	Surge protection, Flange-mounted housing, 10 A, IEC 61643-21, IEC
GTIN (EAN)	4032248696383	62305, DIN EN 60079-0:2009, DIN EN 60079-11:2007, DIN EN
Qty.	1 pc(s).	60079-26:2007, DIN EN 61241-11:2006

Indirect earthing / floating ground via sparkover gap, also suitable for EX ia applications



Base element for the pluggable VSPC arresters. Integrated PE foot in the base of the impedance-neutral VSPC BASE and **floating earth PE connection (FG)** via integrated **sparkover gap**, safely discharges up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to PE. Suitable for unearthed signal circuits.

General ordering data

Type	VSPC BASE 2/4CH FG	Version
Order No.	8924300000	Surge protection, Flange-mounted housing, 10 A, IEC 61643-21, IEC
GTIN (EAN)	4032248695942	62305, DIN EN 60079-0:2009, DIN EN 60079-11:2007, DIN EN
Qty.	1 pc(s).	60079-26:2007, DIN EN 61241-11:2006

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Accessories

Direct earthing



Base element for the pluggable VSPC arrester, integrated PE foot in impedance-neutral VSPC BASE. Can safely discharge up to 20 kA (8/20 µs) and 2.5 kA (10/350 µs) to the PE.

General ordering data

Type	VSPC BASE 2/4CH	Version
Order No.	8924740000	Surge protection, Flange-mounted housing, 10 A, IEC 61643-21, IEC
GTIN (EAN)	4032248696383	62305, DIN EN 60079-0:2009, DIN EN 60079-11:2007, DIN EN
Qty.	1 pc(s).	60079-26:2007, DIN EN 61241-11:2006

V-TEST testing device: for the VSPC, PU I and PU II series



V-TEST

- Testing device for checking the protective function of the pluggable overvoltage protection PU I, PU II and VSPC series
- Device for implementing the IEC 62305 standard (regarding periodic testing)
- Easy-to-use device with integrated battery set for on-site measurements
- LCD results display
- Menu in two languages
- Including a protective bag and power supply
- User friendly navigation in German and English

The V-TEST is a compact, portable test instrument for the plug-in surge protectors VARITECTOR (VSPC) and the surge protectors for the power supply line PU I and PU II. Using this instrument Weidmüller overvoltage protectors can be tested for their protective function in line with the testing schedules laid down in IEC 62305-3 (DIN VDE 0185 part 3). In a display with background illumination, the test result is indicated with "OK" or "Not OK".

General ordering data

Type	V-TEST	Version
Order No.	8951860000	Lightning and surge protection, Testing device
GTIN (EAN)	4032248743100	
Qty.	1 pc(s).	

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Accessories

Plus



The Dekafix (DEK) marker is the universal marker for all conductor and plug-in connectors as well as for electronic sub-assemblies. The system is ideal for short number sequences and covers a wide range of ready-printed markers.

Strips for fast installation in only one work step. The printing is easy to read, rich in contrast and available in various widths.

- Large range of ready-to-use markers
- Strips for fast installation
- Terminal markers, suitable for all Weidmüller cable connectors
- Available as blank MultiCard or with standard printing

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	DEK 5/5 PLUS MC NE WS	Version	
Order No.	1854490000	Dekafix, Terminal marker, 5 x 5 mm, Pitch in mm (P): 5.00	
GTIN (EAN)	4032248393596	Weidmueller, white	
Qty.	1,000 pc(s).		