

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

Klingenbergstraße 26

D-32758 Detmold

Germany

Fon: +49 5231 14-0

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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 µs) and 2.5 kA (10/350 µs) 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 (8/20 μ s) GND-PE	2.5 kA
Discharge current I_{max} (8/20 μ s) GND-PE	10 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 x 2.5 kA	Discharge current I_{max} (8/20 μ s) wire-wire	2 x 10 kA
Lightning test current, I_{imp} (10/350 μ s) GND-PE	0.2 kA	Lightning test current, I_{imp} (10/350 μ s) 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/ μ s, typically	800 V
Protection level on output side Wire-wire 1 kV/ μ s, typically	450 V	Protection level on output side Wire-wire 8/20 μ s, 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 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
Volume resistance	0.20 Ω		

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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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
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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 April 27, 2020 1:17:27 PM CEST

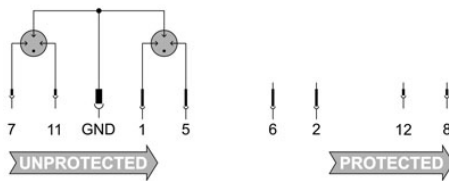
Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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Drawings

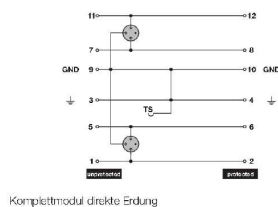
Electric symbol



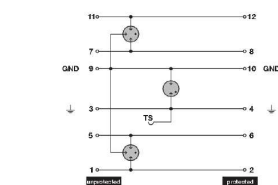
Similar to illustration

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



Kompletmodul direkte Erdung



Kompletmodul indirekte Erdung

Kompletmodul