

VSSC
VSSC6 GDT 110VAC/DC20kA**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

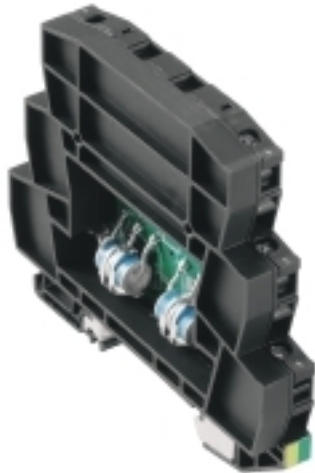
D-32758 Detmold

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Überspannungsschutz mit Einzelkomponenten
Mit Gasableiter in Klemmenbauform
In der Klemmenbauform setzt man Gasableiter /
Funkenstrecken (GDT) ein. Sie sind für eine maximale
Gleichspannung zugelassen, die auf dem Bauelement
aufgedruckt ist. Jede Spannung, die größer als die
angegebene ist, wird sicher in ca. 10-100µs abgeleitet.
Gasableiter finden für größere Leistungen Verwendung.

General ordering data

Type	VSSC6 GDT 110VAC/DC20kA
Order No.	1064700000
Version	Surge protection for instrumentation and control, 110 V, 156 V, 12 A, IEC 61643-21
GTIN (EAN)	4032248829989
Qty.	5 pc(s).

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Technical data

Dimensions and weights

Width	12.4 mm	Width (inches)	0.488 inch
Height	88.5 mm	Height (inches)	3.484 inch
Depth	81 mm	Depth (inches)	3.189 inch
Net weight	52.8 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}	10	MTTF	11,416 Jahre
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

UL certificate	UL Zertifikat
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CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I _i	12 A
Input voltage, max. U _i	195 V	Internal capacity, max. C _i	0 nF
Internal inductance, max. L _i	0 μH		

General data

Colour	black	Design	Terminal
Isolating function	No	Optical function display	No
Protection degree	IP20	Rail	TS 35
Segment	Measurement - Monitoring - Setting	UL 94 flammability rating	V-0
Version	Surge protection for measurement and control		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Technical data

Rated data IEC / EN

Capacitance	2.5 nF	Discharge current $I_{\max}$ (8/20 μ s) wire-PE	20 kA
Discharge current I_n (8/20 μ s) wire-PE	5 kA	Lightning test current I_{imp} (10/350 μ s)	2.5 kA
Lightning test current, I_{imp} (10/350 μ s)		Max. continuous voltage, U_c (AC)	138 V
Wire-PE	1 kA	Overload - failure mode	Modus 2
Max. continuous voltage, U_c (DC)	195 V	Rated current I_N	12 A
Protection level U_p (typ.)	< 1000 V	Rated voltage (DC)	156 V
Rated voltage (AC)	110 V	Standards	IEC 61643-21
Requirements category acc. to IEC 61643-21	C2, C3, D1	Surge current-carrying capacity C3	100 A 10/1000 μ s
Surge current-carrying capacity C2	5 kA 8/20 μ s	Voltage type	AC/DC
Surge current-carrying capacity D1	2.5 kA 10/350 μ s		
Volume resistance	< 0.1 Ω		

Further details of approvals

GOST certificate	GOST-Zertifikat
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Connection data

Type of connection	Screw connection	Tightening torque, min.	0.5 Nm
Tightening torque, max.	0.8 Nm	Clamping range, min.	0.5 mm ²
Clamping range, max.	4 mm ²	Wire cross-section, solid, min.	0.5 mm ²
Wire cross-section, solid, max.	6 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	4 mm ²	Connection cross-section, stranded, min.	0.5 mm ²
Connection cross-section, stranded, max.	4 mm ²		

Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate
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Classifications

ETIM 3.0	EC000943	ETIM 4.0	EC000941
ETIM 5.0	EC000943	ETIM 6.0	EC000943
UNSPSC	30-21-18-11	eClass 5.1	27-14-11-27
eClass 6.2	27-13-08-05	eClass 7.1	27-13-08-09
eClass 8.1	27-13-08-11	eClass 9.0	27-13-08-07
eClass 9.1	27-13-08-07		

Approvals

Approvals



ROHS

Conform

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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 VSSC

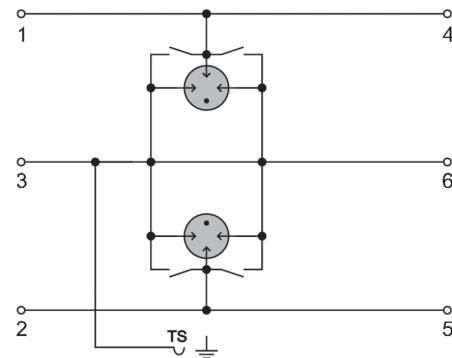
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Drawings



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UNPROTECTED → PROTECTED

Circuit diagram