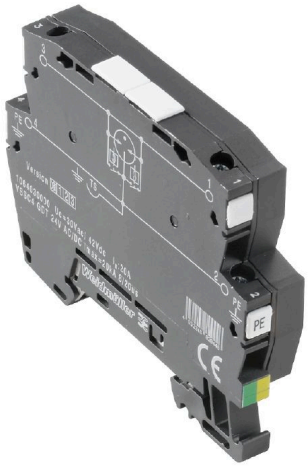
Data sheet

VSSC4 GDT 110VAC/DC20KA

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com



Similar to illustration

Surge protection with individual components
With gas discharge tubes in terminal design
Gas discharge tubes/spark gaps (GDT) are used in the terminal design. They are approved for a maximum DC voltage, which is printed on the component. Any voltage greater than the specified value is safely discharged in approx. 10-100 µs. Gas discharge tubes are used for higher power ratings. Any voltage greater than that specified is safely discharged in approx. 10-100µs. Gas discharge tubes are used for higher power ratings.

General ordering data

Version	Surge protection for instrumentation and control, Surge protection for measurement and control, UP(L/N-PE) < 1000 V
Order No.	1064050000
Type	VSSC4 GDT 110VAC/DC20KA
GTIN (EAN)	4032248829460
Qty.	5 items

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Technical data

Approvals

Approvals	
ROHS	Conform

Dimensions and weights

Depth	58.5 mm	Depth (inches)	2.3031 inch
Height	76 mm	Height (inches)	2.9921 inch
Width	12.4 mm	Width (inches)	0.4882 inch
Net weight	37.6 g		

Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...70 °C
Humidity	5...96 %		

Probability of failure

SIL in compliance with IEC 61508	3	MTTF	11416 a
SFF	100 %	λges	10
PFH in 1*10-9 per hour	0		

Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

CSA protection data

Gas group D	IIA	Gas groups A, B	IIC
Input-current, max. II	20 A	Gas group C	IIB
Internal inductance, max. LI	0 µH	Internal capacity, max. CI	0 nF
Input voltage, max. Ui	195 V		

General data

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

Insulation coordination acc. to EN 50178

Surge voltage category	III	Pollution severity	2

Rated data IEC / EN

Number of poles	1	Rated voltage (AC)	110 V
Rated voltage (DC)	156 V	Rated current IN	20 A

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Protection level UP (typ.)	< 1000 V	Voltage type	AC/DC
Volume resistance	<0.1 Ω	Capacitance	4.65 pF
Standards	IEC 61643-21	Lightning test current limp (10/350 µs)	2.5 kA
Discharge current, max. (8/20 µs)	20 kA	Requirements category acc. to IEC 61643-21	C2, C3, D1
Max. continuous voltage, Uc (AC)	138 V	Max. continuous voltage, Uc (DC)	195 V
Surge current-carrying capacity D1	2.5 kA 10/350 µs	Surge current-carrying capacity C3	100 A 10/1000 µs
Pulse-reset capacity	≤ 20 ms	Lightning test current, limp (10/350 µs) Wire-PE	2.5 kA
Overload - failure mode	Modus 2	Discharge current In (8/20µs) wire-PE	5 kA
Discharge current Imax (8/20µs) wire-PE	20 kA	Surge current-carrying capacity C2	5 kA 8/20 µs

Further details of approvals

GOST certificate	GOST-Zertifikat - PDF/7950_n1-n4.pdf (application/pdf)

Connection data

Stripping length	10 mm	Type of connection	Screw connection
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.8 Nm
Clamping range, min.	0.5 mm²	Clamping range, max.	4 mm²
Wire cross-section, solid, min.	0.5 mm²	Wire cross-section, solid, max.	6 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	4 mm²
Connection cross-section, stranded, min.	0.5 mm²	Connection cross-section, stranded, max.	4 mm²

Electrical data

Voltage type	AC/DC

General data

Number of poles	1	Protection degree	IP20
Colour	black		

Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate - pdf/ VSSC.PDF (application/ pdf)

Important note

Product information	Mode 2: State where the voltage-limiting part of the SPD was short-circuited due to a very low impedance within the SPD. The line is inoperable, but the measuring equipment is still protected by means of a short-circuit.

Classifications

ETIM 7.0	EC000943	ETIM 8.0	EC000943
ETIM 9.0	EC000943	ETIM 10.0	EC000943
ECLASS 12.0	27-17-15-01	ECLASS 13.0	27-17-15-01
ECLASS 14.0	27-17-15-01	ECLASS 15.0	27-17-15-01

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Technical data

Tender specification sheets

Long specification	Feed-through terminal, 12.4mm wide with gas-filled surge voltage arrester between the signal line connection and the mounting rail potential, TS 35 contact base.A signal with max. 32A can be protected here. When the terminal is fitted, a simultaneous electrically conducting contact is made between the mounting rail (earth) and the reference potential (ground) of the protection circuit in the terminal. Optical identification of the terminal based on the type of protected switching and the voltage level. The terminal can be labelled or marked.	Short specification	Feed-through terminal with gas-filled surge voltage arrester between the signal line connection and the mounting rail potential, TS 35 contact base. Version: 110V AC

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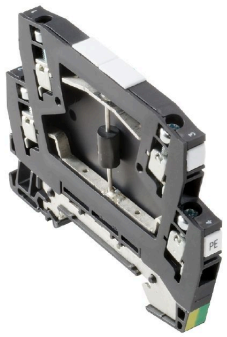
Drawings



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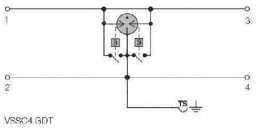

Circuit diagram