

## VSSC4 GDT55VUC 20KA EX

Weidmüller Interfaces GmbH & Co. KG

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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

Version	Surge protection for instrumentation and control, Surge protection for measurement and control, $U_P(L/N-PE) \leq 1900 \text{ V}$
Order No.	<a href="#">1064040000</a>
Type	VSSC4 GDT55VUC 20KA EX
GTIN (EAN)	4032248829453
Qty.	1 pc(s).

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**Technical data****Dimensions and weights**

Depth	58.5 mm	Depth (inches)	2.303 inch
Height	76 mm	Height (inches)	2.992 inch
Width	12.4 mm	Width (inches)	0.488 inch
Net weight	36.4 g		

**Temperatures**

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

**Probability of failure**

SIL in compliance with IEC 61508	3	MTTF	11,416 Jahre
SFF	100 %	λges	10
PFH in 1*10 <sup>-9</sup> per hour	0		

**Protection Ex - Data**

ATEX - dust labelling	II 1 D Ex ia III C T135 °C ... T85 °C Da	ATEX - gas labelling	II 1 G Ex ia IIC T4... T6 Ga
IECEx - dust labelling	II 1 D Ex ia III C T135 °C ... T85 °C Da	IECEx - gas labelling	II 1 G Ex ia IIC T4... T6 Ga
Input power, max. P <sub>i</sub>	0.75 W	Input voltage, max. U <sub>i</sub>	55 V
Internal capacity, max. C <sub>i</sub>	0 nF	Internal inductance, max. L <sub>i</sub>	0 μH
Temperature class T4/135°C (-40°C ... +120 °C) li	300 mA	Temperature class T5/100°C (-40 °C ... +85 °C) li	300 mA
Temperature class T6/85 °C (-40 °C ... +70 °C) li	300 mA		

**CSA protection data**

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I <sub>i</sub>	300 mA
Input voltage, max. U <sub>i</sub>	55 V	Internal capacity, max. C <sub>i</sub>	0 nF
Internal inductance, max. L <sub>i</sub>	0 μH		

**General data**

Colour	Light Blue	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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**Rated data IEC / EN**

Capacitance	4.65 pF	Dielectric strength at FG against PE	> 500 V
Discharge current $I_{max}$ (8/20 $\mu$ s) wire-PE	20 kA	Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	5 kA
Discharge current, max. (8/20 $\mu$ s)	20 kA	Input voltage, max. $U_i$	55 V
Lightning test current $I_{imp}$ (10/350 $\mu$ s)	2.5 kA	Max. continuous voltage, $U_c$ (AC)	55 V
Max. continuous voltage, $U_c$ (DC)	38 V	Number of poles	1
Overload - failure mode	Modus 2	Protection level $U_p$ (typ.)	$\leq$ 1900 V
Pulse-reset capacity	$\leq$ 20 ms	Rated current $I_N$	300 mA
Rated voltage (AC)	55 V	Rated voltage (DC)	80 V
Requirements category acc. to IEC 61643-21	C2, C3, D1	Standards	IEC61643-21:2009, DIN EN 60079-0:2009, DIN EN 60079-26:2007, DIN EN 61241-11:2006
Surge current-carrying capacity C2	5 kA 8/20 $\mu$ s	Surge current-carrying capacity C3	100 A 10/1000 $\mu$ s
Surge current-carrying capacity D1	2.5 kA 10/350 $\mu$ s	Voltage type	AC/DC
Volume resistance	$<0.1 \Omega$		

**Further details of approvals**

GOST certificate GOST-Zertifikat

**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 mm <sup>2</sup>	Clamping range, max.	4 mm <sup>2</sup>
Wire cross-section, solid, min.	0.5 mm <sup>2</sup>	Wire cross-section, solid, max.	6 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	4 mm <sup>2</sup>
Connection cross-section, stranded, min.	0.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	4 mm <sup>2</sup>

**Ratings IECEx/ATEX/cUL**

ATEX - dust labelling	II 1 D Ex ia IIIC T135 °C ... T85 °C Da	ATEX - gas labelling	II 1 G Ex ia IIC T4... T6 Ga
ATEX certificate	ATEX Certificate	IEC Ex certificate	11ATEX0023X
IECEx - dust labelling	II 1 D Ex ia IIIC T135 °C ... T85 °C Da	IECEx - gas labelling	II 1 G Ex ia IIC T4... T6 Ga
cUL certificate	cUL Certificate		

**Classifications**

ETIM 6.0	EC000943	ETIM 7.0	EC000943
ETIM 8.0	EC000943	ECLASS 9.0	27-13-08-07
ECLASS 9.1	27-13-08-07	ECLASS 10.0	27-13-08-07
ECLASS 11.0	27-13-08-07	ECLASS 12.0	27-17-90-90

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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. An intrinsically safe signal with max. 0.3A 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. Suitable for ATEX applications. Tested to Ex area ignition protection types: Ex ia IIC / Ex iaD	Short specification	<a href="http://www.weidmueller.com">www.weidmueller.com</a>	Feed-through terminal with gas-filled surge voltage arrester between the signal line connection and the mounting rail potential, TS 35 contact base. Version: 55V UC. Suitable for ATEX applications.
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**Environmental Product Compliance**

REACH SVHC Lead 7439-92-1

**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.

**Approvals**

Approvals



ROHS Conform

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">SIL Paper</a> <a href="#">Certificate of Compliance</a> <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Engineering Data	<a href="#">WSCAD</a>
User Documentation	<a href="#">Beipackzettel / Instruction sheet</a> <a href="#">Beipackzettel / Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	

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**Data sheet**

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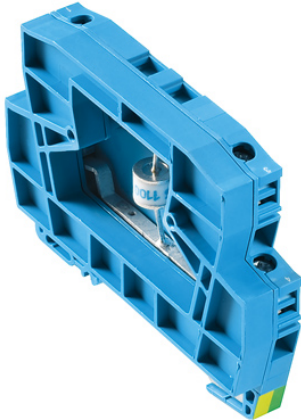
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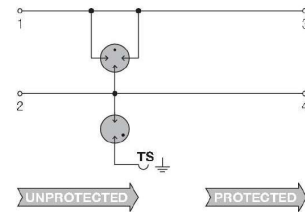
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**Drawings**



Similar to illustration



Circuit diagram

