

VSSC4 GDT55VUC 20kA EX

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

www.weidmueller.com



Surge protection with individual components
 With gas-discharge tubes in terminal design
 Gas-discharge tubes / sparkover gaps (GDT) are designed with a terminal shape. They are approved for a maximum DC voltage, which is printed on the component. Any voltage greater than the amount specified is safely discharged within about 10-100µs. Gas arresters can be used for high-power applications.

General ordering data

Order No.	1064040000
Type	VSSC4 GDT55VUC 20kA EX
Version	Surge protection for instrumentation and control
GTIN (EAN)	4032248829453
Qty.	5 pc(s).

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Technical data

Dimensions and weights

Width	12.2 mm	Height	76 mm
Depth	58.5 mm	Net weight	33.6 g

Temperatures

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

Probability of failure

λ_{ges}	10	MTTF	11,416 Years
PFH in $1 \cdot 10^{-9}$ per hour	0	SFF	100 %
SIL in compliance with IEC 61508	3		

General data

Colour	Light Blue	Isolating function	No
Mounting rail	TS 35	Optical function display	No
Protection degree		Segment	Instrumentation and Control
	IP 20		
UL 94 flammability rating	V-0		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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technical data

Rated voltage (AC)	55 V	Rated voltage (DC)	38 V
Rated current	300 mA	Max. continuous voltage, U_c (AC)	55 V
Max. continuous voltage, U_c (DC)	38 V	Discharge current I_n (8/20 μ s) wire-PE	5 kA
Discharge current I_{max} (8/20 μ s) wire-PE	20 kA	Discharge current, max. (8/20 μ s)	20 kA
Protection level U_p (typ.)		Standards	IEC61643-21:2009, DIN EN 60079-0:2009, DIN EN 60079-26:2007, DIN EN 61241-11:2006
	≤ 1800 V	Humidity	5...96 %
Colour	Light Blue	Lightning test current I_{imp} (10/350 μ s)	2.5 kA
Requirements category acc. to IEC 61643-21	C2, C3, D1	Capacitance	4.65 pF
Volume resistance	$< 0.1 \Omega$	Dielectric strength at FG against PE	≥ 500 V
Residual voltage, U_p typical	845 V		
Overload - failure mode	Modus 2		

Connection data

Clamping range, rated connection, min.	0.5 mm ²	Clamping range, rated connection, max.	4 mm ²
Wire connection cross section, stranded, rated connection, min.	0.5 mm ²	Wire connection cross section, stranded, rated connection, max.	4 mm ²
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.8 Nm

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Technical data

EX protection data

Input power, max. P_I	0.75 W	Internal capacitance, max. C_I	0 nF
Internal inductance, max. L_I	0 μ H	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

Further details of approvals

GOST certificate	GOST-Zertifikat
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Rated data UL

UL certificate	UL Zertifikat
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Ratings IECEx/ATEX

ATEX certificate	ATEX Certificate	IEC Ex certificate	11ATEX0023X
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Classifications

ETIM 3.0	EC000943	UNSPSC	30-21-18-11
eClass 4.1	27-14-11-27	eClass 5.1	27-14-11-27
eClass 6.2	27-13-08-02	eClass 7.1	27-13-08-02

Approvals

Approvals



ROHS Conform

Probability of failure

SIL PAPER	SIL Paper
3-D model	

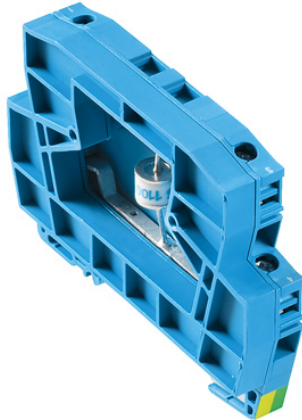
Downloads

Package insert	Instruction sheet
Declaration of Conformity	K378_02_11.pdf
PDF	Type examination certificate
3-D model	

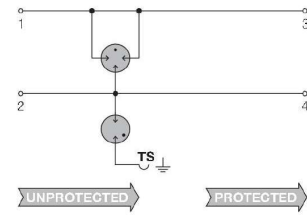
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Drawings



Similar to illustration



Circuit diagram