

VSSC6TRGDT240VAC/DC10KA**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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 10-100 μ s. Gas arresters can be used for high-power applications.

General ordering data

Version	Surge protection for instrumentation and control, Surge protection for measurement and control
Order No.	1064920000
Type	VSSC6TRGDT240VAC/DC10KA
GTIN (EAN)	4032248830169
Qty.	5 items

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Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

Depth	81 mm	Depth (inches)	3.189 inch
Height	88.5 mm	Height (inches)	3.4842 inch
Width	12.4 mm	Width (inches)	0.4882 inch
Net weight	58.8 g		

Temperatures

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

Probability of failure

SIL in compliance with IEC 61508	3	MTTF	114 16 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%

Rated data UL

UL certificate	UL Zertifikat - PDF/ E311081VOL1SEC3.pdf (application/pdf)
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CSA protection data

Gas group D	IIA	Gas groups A, B	IIC
Input-current, max. I _I	12 A	Gas group C	IIB
Internal inductance, max. L _I	0 μH	Internal capacity, max. C _I	0 nF
Input voltage, max. U _i	407 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	Yes	Testing option	Functional screw with test plug receptacle, connections 1, 2, 4, 5

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Insulation coordination acc. to EN 50178

Surge voltage category	III	Pollution severity	2
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Rated data IEC / EN

Number of poles	1	Signalling contact	No
Rated voltage (AC)	240 V	Rated voltage (DC)	339 V
Rated current I _N	12 A	Protection level, UP wire - wire	1900 V
Protection level, UP wire - PE	1900 V	Voltage type	AC/DC
Volume resistance	<0.1 Ω	Capacitance	3.0 nF
Standards	IEC 61643-21	Lightning test current I _{imp} (10/350 μs)	1 kA
Discharge current, max. (8/20 μs)	20 kA	Requirements category acc. to IEC 61643-21	C2, C3, D1
Max. continuous voltage, U _c (AC)	288 V	Max. continuous voltage, U _c (DC)	407 V
Surge current-carrying capacity D1	1 kA 10/350 μs	Surge current-carrying capacity C3	50 A 10/1000 μs
Lightning test current, I _{imp} (10/350 μs) Wire-PE	1 kA	Overload - failure mode	Modus 2
Rated load current I _L	12 A	Discharge current I _n (8/20 μs) wire-PE	2.5 kA
Discharge current I _{max} (8/20 μs) wire-PE	10 kA	Surge current-carrying capacity C2	2.5 kA 8/20 μs 5 kV 1.2/50 μs

Further details of approvals

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

Electrical data

Voltage type	AC/DC
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General data

Number of poles	1	Protection degree	IP20
Colour	black		

Ratings IECEx/ATEX/cUL

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

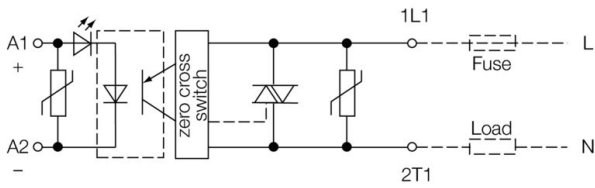
ETIM 8.0	EC000943	ETIM 9.0	EC000943
ETIM 10.0	EC000943	ECLASS 14.0	27-17-15-01
ECLASS 15.0	27-17-15-01		

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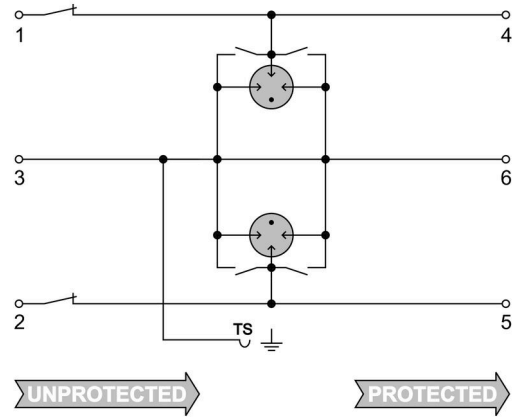
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Drawings

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Circuit diagram

