

VSSC4 GDT 240VUC 2X10KA

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

www.weidmueller.com



Similar to illustration

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, $U_p(L/N-PE) < 1300 \text{ V}$
Order No.	1307880000
Type	VSSC4 GDT 240VUC 2X10KA
GTIN (EAN)	4050118146431
Qty.	5 Stück

Erstellungs-Datum May 25, 2023 10:38:30 AM CEST

Katalogstand 12.05.2023 / Technische Änderungen vorbehalten

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Technische Daten

Dimensions and weights

Depth	58.5 mm	Depth (inches)	2.303 inch
Height	76 mm	Height (inches)	2.992 inch
Width	6.2 mm	Width (inches)	0.244 inch
Net weight	32.5 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 ⁻⁹ per hour	0		

CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input voltage, max. U _i	407 V
Internal capacity, max. C ₁	0 nF	Internal inductance, max. L ₁	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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Rated data IEC / EN

Capacitance	4.65 pF	Discharge current I _{max} (8/20μs) wire-PE	2 x 10 kA
Discharge current I _n (8/20μs) wire-PE	5 kA	Lightning test current I _{imp} (10/350 μs)	2.5 kA
Lightning test current, I _{imp} (10/350 μs)		Max. continuous voltage, U _c (AC)	288 V
Wire-PE	2.5 kA	Number of poles	1
Max. continuous voltage, U _c (DC)	407 V	Protection level U _p (typ.)	< 1300 V
Overload - failure mode	Modus 2	Rated current I _N	20 A
Pulse-reset capacity	≤ 20 ms	Rated voltage (DC)	339 V
Rated voltage (AC)	240 V	Standards	IEC 61643-21
Requirements category acc. to IEC 61643-21	C2, C3, D1	Surge current-carrying capacity C3	100 A 10/1000 μs
Surge current-carrying capacity C2	5 kA 8/20 μs	Voltage type	AC/DC
Surge current-carrying capacity D1	2.5 kA 10/350 μs		
Volume resistance	<0.1 Ω		

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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 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

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

Tender specification sheets

Long specification	<p>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.</p>	Short specification	<p>Feed-through terminal with gas-filled surge voltage arrester between the signal line connection and the mounting rail potential, TS 35 contact base. Version: 24V AC</p>
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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.

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Approvals

Approvals



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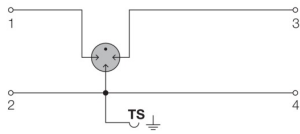
Approval/Certificate/Document of Conformity	SIL Paper Certificate of Compliance EU_Konformitätserklärung / EU_Declaration_of_Conformity
Engineering Data	CAD data – STEP
Engineering Data	WSCAD, EPLAN
User Documentation	Beipackzettel / Instruction sheet
Catalogues	Catalogues in PDF-format

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Zeichnungen



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Circuit diagram

