VSSC4 GDT 24VAC/DC 20kA

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
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Germany

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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, 24 V, 34 V, 20 A, IEC 61643-21
Order No.	1064030000
Type	VSSC4 GDT 24VAC/DC 20kA
GTIN (EAN)	4032248829446
Qty.	5 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
Net weight	37.8 g	Width	12.4 mm
Width (inches)	0.488 inch		

Temperatures

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

Probability of failure

SIL PAPER	SIL Paper	SIL in compliance with IEC 61508	3
MTTF	11,416 Jahre	SFF	100 %
λges	10	PFH in $1*10^{-9}$ per hour	0

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1

CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I_I	20 A
Input voltage, max. U_i	42 V	Internal capacity, max. C_I	0 nF
Internal inductance, max. L_I	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

Rated data IEC / EN

Capacitance	4.96 pF	Discharge current I_{max} (8/20µs) wire-PE	20 kA
Discharge current I_n (8/20µs) wire-PE	5 kA	Discharge current, max. (8/20 µs)	20 kA
Lightning test current I_{imp} (10/350 µs)	2.5 kA	Max. continuous voltage, Uc (AC)	30 V
Max. continuous voltage, Uc (DC)	42 V	Number of poles	1
Overload - failure mode	Modus 2	Protection level U_P (typ.)	< 1000 V
Rated current I_N	20 A	Rated voltage (AC)	24 V
Rated voltage (DC)	34 V	Requirements category acc. to IEC 61643-21	C2, C3, D1
Standards	IEC 61643-21	Surge current-carrying capacity C2	5 kA 8/20 µs
Surge current-carrying capacity C3	100 A 10/1000 µs	Surge current-carrying capacity D1	2.5 kA 10/350 µs
Voltage type	AC/DC	Volume resistance	<0.1 Ω

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Further details of approvals

GOST certificate	GOST-Zertifikat

Connection data

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		

Ratings IECEx/ATEX/cUL

cUL certificate	cUL Certificate

Classifications

ETIM 6.0	EC000943	ETIM 7.0	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

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: 24V AC

Approvals

Approvals	
ROHS	Conform

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Technical data

Downloads

Approval/Certificate/Document of Conformity	SIL Paper Certificate of Compliance CE PAPER Declaration of Conformity
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet VSSC

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Drawings

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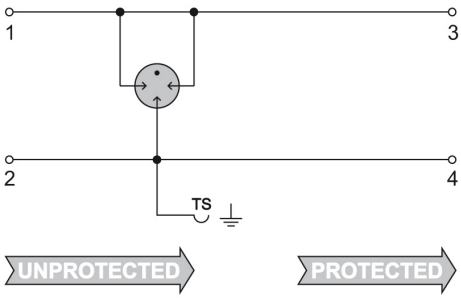

Circuit diagram