

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com













Similar to illustration

Overvoltage coupling along the conductor path may disturb or destroy sensitive signal inputs. It is important to provide protection in the immediate vicinity of I&C devices. Weidmüller's broad product range for the I&C sector offers products in a 2-piece, pluggable design and modular terminals for tension clamp or screw connection. These products are suitable for both binary and analogue signals. Weidmüller also offers other designs with integrated components such as gas discharge tubes or varistors. VARITECTOR stands for flexible and variable surge protection by Weidmüller, tested according to product standard IEC61643-21. The VARITECTOR series can be used in applications according to IEC 61643-22 / VDE 0845-3 for classes C1, C2, C3 and D1. The VARITECTOR SPC, SSC and MCZ OVP product families optimally combine electrical and mechanical properties. Size and easy handling play an important role. This surge protection is suited for confined spaces in industrical and process automation as well as in building automation applications.

General ordering data

Version	Surge protection for instrumentation and control, 48 V, 68 V, 500 mA, IEC 61643-21, HART- compatible
Order No.	<u>1064240000</u>
Туре	VSSC6 TRCL48VAC/DC0.5A
GTIN (EAN)	4032248829606
Qty.	10 pc(s).



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Technical data

-	-		
Dım	ensions	and	weights

Depth	81 mm	Depth (inches)	3.189 inch
Height	88.5 mm	Height (inches)	3.484 inch
Net weight	43.4 g	Width	6.2 mm
Width (inches)	0.244 inch		

Temperatures

Storage temperature	-40 °C80 °C	Operating temperature	-40 °C70 °C
Humidity	596 %		

Probability of failure

SIL PAPER	SIL Paper	SIL in compliance with IEC 61508	2
MTTF	6,008 Jahre	SFF	89.74 %
λges	19	PFH in 1*10 ⁻⁹ per hour	1.95

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
DEALD SVOL	1 680 7459-97-1

Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL Zertifikat

CSA protection data

Gas group C	IIB	Gas group D	IIA	
Gas groups A, B	IIC	Input current, max. I _I	500 mA	
Input voltage, max. U _i	85 V	Internal capacity, max. C _I	1 nF	
Internal inductance, max. L _I	0 μΗ			

General data

			-
Colour	black	Design	Terminal
Isolating function	Yes	Optical function display	No
Protection degree	IP20	Rail	TS 35
Segment		Testing option	Functional screw with
	Measurement - Monitoring		test plug receptacle,
	- Setting		connections 1, 2, 4, 5
UL 94 flammability rating		Version	Surge protection for
	V-0		measurement and control

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III



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Technical data

Rated data IEC / EN

Discharge current I _{max} (8/20µs) wire-F	PE	Discharge current I _{max} (8/20µs) wire-	
	5 kA	wire	5 kA
Discharge current I _n (8/20µs) wire-PE	2.5 kA	Discharge current I _n (8/20µs) wire-wire	2.5 kA
Discharge current, max. (8/20 µs)	10 kA	Fuse	0.5 A
Insertion loss	250 MHz	Lightning test current I _{imp} (10/350 μs)	0.5 kA
Lightning test current, I _{imp} (10/350 μ		Max. continuous voltage, Uc (AC)	
Wire-PE	0.5 kA	_	60 V
Max. continuous voltage, Uc (DC)	85 V	Number of poles	1
Overload - failure mode	Modus 2	Protection level U _P (typ.)	770 V
Protection level on output side Wire-w		Protection level, U _P wire - wire	
1 kV/μs, typically	150 V	- -	200 V
Pulse-reset capacity	≤ 150 ms	Rated current I _N	500 mA
Rated voltage (AC)	48 V	Rated voltage (DC)	68 V
Requirements category acc. to IEC 61643-21	C2, C3, D1	Signal transmission properties (-3 dB)	270 Mhz
Standards	IEC 61643-21, HART- compatible	Surge current-carrying capacity C2	2.5 kA 8/20 μs 5 kV 1.2/50 μs
Surge current-carrying capacity C3	50 A 10/1000 μs	Surge current-carrying capacity D1	0.5 kA 10/350 μs
Voltage type Further details of approvals	AC/DC	Volume resistance	1.8 Ω 10 %
<u> </u>	AC/DC GOST-Zertifikat	Volume resistance	1.8 Ω 10 %
Further details of approvals GOST certificate		Volume resistance	1.8 Ω 10 %
Further details of approvals		Volume resistance Tightening torque, min.	1.8 Ω 10 % 0.5 Nm
Further details of approvals GOST certificate Connection data Type of connection	GOST-Zertifikat		
Further details of approvals GOST certificate Connection data	GOST-Zertifikat Screw connection	Tightening torque, min.	0.5 Nm
Further details of approvals GOST certificate Connection data Type of connection Tightening torque, max.	GOST-Zertifikat Screw connection 0.8 Nm	Tightening torque, min. Clamping range, min.	0.5 Nm 0.5 mm ²
Further details of approvals GOST certificate Connection data Type of connection Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH	GOST-Zertifikat Screw connection 0.8 Nm 4 mm² 6 mm²	Tightening torque, min. Clamping range, min. Wire cross-section, solid, min. Conductor cross-section, flexible, AEH	0.5 Nm 0.5 mm ² 0.5 mm ²
Further details of approvals GOST certificate Connection data Type of connection Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH (DIN 46228-1), max.	GOST-Zertifikat Screw connection 0.8 Nm 4 mm ² 6 mm ²	Tightening torque, min. Clamping range, min. Wire cross-section, solid, min. Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 Nm 0.5 mm ² 0.5 mm ² 0.5 mm ²
Further details of approvals GOST certificate Connection data Type of connection Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH	GOST-Zertifikat Screw connection 0.8 Nm 4 mm² 6 mm²	Tightening torque, min. Clamping range, min. Wire cross-section, solid, min. Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 Nm 0.5 mm ² 0.5 mm ²
Further details of approvals GOST certificate Connection data Type of connection Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH (DIN 46228-1), max. Connection cross-section, stranded,	Screw connection 0.8 Nm 4 mm ² 6 mm ²	Tightening torque, min. Clamping range, min. Wire cross-section, solid, min. Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 Nm 0.5 mm ² 0.5 mm ²

ETIM 7.0

ECLASS 9.1

ECLASS 11.0

ETIM 6.0

ECLASS 9.0

ECLASS 10.0

EC000943

27-13-08-07

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Technical data

Tender specification sheets

Long specification

Short specification

Surge protection in a one piece, 6.2 mm wide DIN rail module for a floating-ground driven signal circuit with 2-wire technology and a common wire. Each signal path can be opened using an isolator. Version: 12V DC

Approvals

Approvals











ROHS	Conform
UL File Number Search	E311081

Downloads

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



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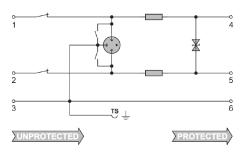
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Drawings



Similar to illustration



Circuit diagram

