

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com













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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, Surge protection for measurement and control, UP(L/N-PE) 150 V
Order No.	<u>1064430000</u>
Туре	VSSC6SLFGLD24VAC/DC0.5A
GTIN (EAN)	4032248829798
Qty.	10 items





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Technical data

App	roval	ls
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Approvals	C CSAEX OVE	TED.

ROHS	Conform
UL File Number Search	<u>UL Website</u>
Certificate No. (UL)	E311081

Dimensions and weights

Depth	81 mm	Depth (inches)	3.189 inch
Height	88.5 mm	Height (inches)	3.4842 inch
Width	6.2 mm	Width (inches)	0.2441 inch
Net weight	42 g		

Temperatures

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

Probability of failure

SIL in compliance with IEC 61508	3	MTTF	2114 a
SFF	96.67 %	λges	54
PFH in 1*10-9 per hour	1.8		

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	71e97bb7-979f-4330-94c0-20c629bb05e3

Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL Zertifikat - PDF/ E311081VOL1SEC3.pdf
			(application/pdf)

CSA protection data

Gas group D	IIA	Gas groups A, B	IIC	
Input-current, max. II	500 mA	Gas group C	IIB	
Internal inductance, max. LI	0 μΗ	Internal capacity, max. Cl	2 nF	
Input voltage, max. Ui	42 V			

General data

Optical function display	Yes	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	No		

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Technical data

Surge voltage category	III	Pollution severity	2
Rated data IEC / EN			
Number of poles	1	Leakage current at Un	2.8 mA
Rated voltage (AC)	24 V	Rated voltage (DC)	34 V
Rated current IN	500 mA	Protection level on output side Wire-wire 1 kV/µs, typically	e 70 V
Protection level UP (typ.)	150 V	Voltage type	AC/DC
Fuse protection	0.5 A	Volume resistance	1.8 Ω 10 %
Standards	IEC 61643-21	Lightning test current limp (10/350 µs)	1 kA
Discharge current, max. (8/20 µs)	10 kA	Dielectric strength at FG against PE	≥ 500 V
Requirements category acc. to IEC 61643-21	C2, C3, D1	Insertion loss	3.12 Mhz
Max. continuous voltage, Uc (AC)	30 V	Max. continuous voltage, Uc (DC)	42 V
Surge current-carrying capacity D1	1 kA 10/350 μs	Protection level, UP GND - PE	1400 V
Surge current-carrying capacity C3	10 A 10/1000 μs	Pulse-reset capacity	≤ 20 ms
Signal transmission properties (-3 dB)	3.2 MHz	Lightning test current, limp (10/350 μs) Wire-PE	
Overload - failure mode	Modus 2	Discharge current Imax (8/20µs) GND-PE	10 kA
Discharge current In (8/20µs) wire-PE	2.5 kA	Discharge current Imax (8/20µs) wire-P	E10 kA
Discharge current In (8/20µs) GND-PE	2.5 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		
GOST certificate	PDF/7950_n1-n4.pdf		
GOST certificate Connection data	PDF/7950_n1-n4.pdf (application/pdf)	Type of connection	Screw connection
GOST certificate Connection data Stripping length	PDF/7950_n1-n4.pdf (application/pdf)	Type of connection	Screw connection
GOST certificate Connection data Stripping length Tightening torque, min.	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm	Tightening torque, max.	0.8 Nm
GOST certificate Connection data Stripping length Tightening torque, min. Clamping range, min.	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm²	Tightening torque, max. Clamping range, max.	0.8 Nm 4 mm ²
GOST certificate Connection data Stripping length Tightening torque, min. Clamping range, min. Wire cross-section, solid, min. Conductor cross-section, flexible, AEH	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm	Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH	0.8 Nm
GOST certificate Connection data Stripping length Tightening torque, min. Clamping range, min. Wire cross-section, solid, min. Conductor cross-section, flexible, AEH (DIN 46228-1), min.	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm ² 0.5 mm ²	Tightening torque, max. Clamping range, max. Wire cross-section, solid, max.	0.8 Nm 4 mm ² 6 mm ²
GOST certificate Connection data Stripping length Tightening torque, min. Clamping range, min. Wire cross-section, solid, min. Conductor cross-section, flexible, AEH (DIN 46228-1), min. Connection cross-section, stranded, min	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm ² 0.5 mm ²	Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH (DIN 46228-1), max. Connection cross-section, stranded,	0.8 Nm 4 mm ² 6 mm ² 4 mm ²
GOST certificate Connection data Stripping length Tightening torque, min. Clamping range, min. Wire cross-section, solid, min. Conductor cross-section, flexible, AEH (DIN 46228-1), min. Connection cross-section, stranded, min Electrical data	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm² 0.5 mm² 0.5 mm²	Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH (DIN 46228-1), max. Connection cross-section, stranded,	0.8 Nm 4 mm ² 6 mm ² 4 mm ²
	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm ² 0.5 mm ²	Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH (DIN 46228-1), max. Connection cross-section, stranded,	0.8 Nm 4 mm ² 6 mm ² 4 mm ²
Connection data Stripping length Tightening torque, min. Clamping range, min. Wire cross-section, solid, min. Conductor cross-section, flexible, AEH (DIN 46228-1), min. Connection cross-section, stranded, min Electrical data Voltage type	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm² 0.5 mm² 0.5 mm²	Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH (DIN 46228-1), max. Connection cross-section, stranded,	0.8 Nm 4 mm ² 6 mm ² 4 mm ²
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GOST certificate Connection data Stripping length Tightening torque, min. Clamping range, min. Wire cross-section, solid, min. Conductor cross-section, flexible, AEH (DIN 46228-1), min. Connection cross-section, stranded, min Electrical data	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm² 0.5 mm² 0.5 mm² AC/DC	Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH (DIN 46228-1), max. Connection cross-section, stranded,	0.8 Nm 4 mm² 6 mm² 4 mm² 4 mm²
GOST certificate Connection data Stripping length Tightening torque, min. Clamping range, min. Wire cross-section, solid, min. Conductor cross-section, flexible, AEH (DIN 46228-1), min. Connection cross-section, stranded, min Electrical data Voltage type General data Number of poles	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm² 0.5 mm² 0.5 mm² AC/DC	Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH (DIN 46228-1), max. Connection cross-section, stranded, max.	0.8 Nm 4 mm² 6 mm² 4 mm² 4 mm²
Connection data Stripping length Tightening torque, min. Clamping range, min. Wire cross-section, solid, min. Conductor cross-section, flexible, AEH (DIN 46228-1), min. Connection cross-section, stranded, min Electrical data Voltage type General data Number of poles Colour Ratings IECEx/ATEX/cUL	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm² 0.5 mm² n. 0.5 mm² AC/DC	Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH (DIN 46228-1), max. Connection cross-section, stranded, max.	0.8 Nm 4 mm² 6 mm² 4 mm² 4 mm²
GOST certificate Connection data Stripping length Tightening torque, min. Clamping range, min. Wire cross-section, solid, min. Conductor cross-section, flexible, AEH (DIN 46228-1), min. Connection cross-section, stranded, min Electrical data Voltage type General data Number of poles Colour	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm² 0.5 mm² 0.5 mm² AC/DC	Tightening torque, max. Clamping range, max. Wire cross-section, solid, max. Conductor cross-section, flexible, AEH (DIN 46228-1), max. Connection cross-section, stranded, max.	0.8 Nm 4 mm² 6 mm² 4 mm²

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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 Product information

by means of a short-circuit.

Classifications

ETIM 7.0	EC000943	ETIM 8.0	EC000943
ETIM 9.0	EC000943	ETIM 10.0	EC000943
ECLASS 12.0	27-17-15-01	ECLASS 13.0	27-17-15-01
ECLASS 14.0	27-17-15-01	ECLASS 15.0	27-17-15-01

Tender specification sheets

Long specification	Surge protection in a one piece, 6.2 mm wide DIN rail module for two binary, potential-free signal circuits with 24 V UC. Signal indication via a green LED. When the terminal is fitted, there is a simultaneous sparkover gap created to the high-impedance earth between the mounting rail (earth) and the reference potential (ground) of the protective switch. 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	Surge protection in a one piece, 6.2 mm wide DIN rail module for two binary, potential-free signal circuits. Signal indication via a green LED. Version: 24V UC

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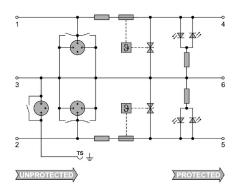
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Drawings



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Circuit diagram

