

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, Surge protection for measurement and control, UP(L/N-PE) 900 V
Order No.	<u>1064170000</u>
Туре	VSSC6 CL 24VAC/DC 0.5A
GTIN (EAN)	4032248829552
Qty.	10 items





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

	C C COVEY	LISTED
ROHS	Conform	

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	40.6 g		

Temperatures

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

Probability of failure

SIL in compliance with IEC 61508	2	MTTF	6008 a
SFF	89.74 %	λges	19
PFH in 1*10-9 per hour	1.95		

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. CI	1 nF	
Input voltage, max. Ui	42 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	No		

Creation date 29.11.2025 08:28:40 MEZ





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Surge voltage category	III	Pollution severity	2
		. Shadon Sevency	_
Rated data IEC / EN			
Niveshau of males	1	Poted valtors (AC)	24.1/
Number of poles	1 34 V	Rated voltage (AC) Rated current IN	24 V 500 mA
Rated voltage (DC) Protection level on output side Wire-wire		Protection level, UP wire - wire	90 V
1 kV/µs, typically	e 70 V	Flotection level, OF wire - wire	90 V
Protection level UP (typ.)	900 V	Voltage type	AC/DC
Fuse protection	0.5 A	Volume resistance	1.8 Ω 10 %
Standards	IEC 61643-21, HART- compatible	Lightning test current limp (10/350 μs)	0.5 kA
Discharge current, max. (8/20 μs)	10 kA	Requirements category acc. to IEC 61643-21	C2, C3, D1
Insertion loss	250 MHz	Max. continuous voltage, Uc (AC)	30 V
Max. continuous voltage, Uc (DC)	42 V	Surge current-carrying capacity D1	0,5 kA
Surge current-carrying capacity C3	50 A	Pulse-reset capacity	≤ 170 ms
Signal transmission properties (-3 dB)	3.4 MHz	Lightning test current, limp (10/350 μs) Wire-PE	0.5 kA
Overload - failure mode	Modus 2	Discharge current In (8/20µs) wire-wire	2.5 kA
Discharge current In (8/20µs) wire-PE	2.5 kA	Discharge current Imax (8/20µs) wire-P	E5 kA
Discharge current Imax (8/20µs) wire- wire	5 kA	Surge current-carrying capacity C2	2.5 kA
Eurthor dotaile of approvale			
Further details of approvals GOST certificate	GOST-Zertifikat -		
GOST certificate	GOST-Zertifikat - PDF/7950_n1-n4.pdf (application/pdf)		
Further details of approvals GOST certificate Connection data	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	
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
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.	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.	4 mm ² 6 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.	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	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm² 0.5 mm² 1.0.5 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
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
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 mm² 0.5 mm² 1.0.5 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
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	PDF/7950_n1-n4.pdf (application/pdf) 10 mm 0.5 Nm 0.5 mm² 0.5 mm² 1.0.5 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, max.	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 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 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 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	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 mm ² 6 mm ² 4 mm ²

Creation date 29.11.2025 08:28:40 MEZ





Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Technical data

Im	no	rta	nt	nc	ite

Mode 2: State where the voltage-limiting part of the SPD was short-circuited due to a very low Product information

impedance within the SPD. The line is inoperable, but the measuring equipment is still protected

by means of a short-circuit.

Optical identification of the terminal based on the type of protected switching and the voltage level. The terminal can be labelled or

marked.

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 a floating-ground signal circuit with 24 V UC, 2-wire technology. A current loop with max. 0.6A 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.	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. Version: 24V UC



Weidmüller Interface GmbH & Co. KG

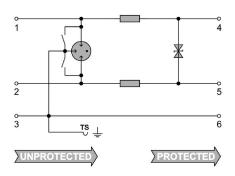
Klingenbergstraße 26 D-32758 Detmold Germany

www.weidmueller.com

Drawings



Similar to illustration



Circuit diagram

