

VSSC

VSSC6 MOV 24VAC/DC

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

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Germany

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Overvoltage protection with individual components with varistors in terminal design

The metal-oxide varistors can be used in terminal design. They are approved for a maximum sine-wave-form power-frequency operating voltage, which is printed on the component. Any voltages greater than the permitted maximum are discharged safely within 25 ns. Varistors are used for medium to high power.

General ordering data

Type	VSSC6 MOV 24VAC/DC
Order No.	1064540000
Version	Surge protection for instrumentation and control, 24 V, 34 V, 24 V, 12 A, According to IEC61643-21
GTIN (EAN)	4032248829873
Qty.	8 pc(s).

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Technical data**Dimensions and weights**

Width	6.2 mm	Width (inches)	0.244 inch
Height	88.5 mm	Height (inches)	3.484 inch
Depth	81 mm	Depth (inches)	3.189 inch
Net weight	50.75 g		

Temperatures

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

Probability of failure

λ_{ges}	26	MTTF	4,391 Jahre
PFH in $1 \cdot 10^{-9}$ per hour	0	SFF	100 %
SIL in compliance with IEC 61508	3		

CSA protection data

Gas group C	IIB	Gas group D	IIA
Gas groups A, B	IIC	Input current, max. I_I	12 A
Input voltage, max. U_I	42 V	Internal capacity, max. C_I	10 nF
Internal inductance, max. L_I	0 μ H		

General data

Colour	Black	Design	Terminal
Isolating function	No	Mounting rail	TS 35
Optical function display	No	Protection degree	IP20
Segment	Instrumentation and Control	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	4.6 nF	Discharge current I_{max} (8/20 μ s) wire-PE	1 kA
Discharge current I_n (8/20 μ s) wire-PE	0.5 kA	Discharge current, max. (8/20 μ s)	2 kA
Max. continuous voltage, U_c (AC)	30 V	Max. continuous voltage, U_c (DC)	42 V
Overload - failure mode	Mode 1	Protection level U_p (typ.)	150 V
Rated current I_N	12 A	Rated voltage (AC)	24 V
Rated voltage (DC)	34 V, 24 V	Requirements category acc. to IEC 61643-21	C1
Standards	According to IEC61643-21	Surge current-carrying capacity C1	0.25 kA 8/20 μ s 0.5 kV 1.2/50 μ s
Voltage type	AC/DC	Volume resistance	< 0.1 Ω

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Technical data**Further details of approvals**

GOST certificate	GOST-Zertifikat
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Connection data

Type of connection	Screw connection, Torx® T15, Slotted 0.8 x 4	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		

Rated data UL

Certificate No. (UL)	E311081	UL certificate	UL Zertifikat
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Classifications

ETIM 3.0	EC000943	ETIM 4.0	EC000941
ETIM 5.0	EC000943	ETIM 6.0	EC000943
UNSPSC	30-21-18-11	eClass 5.1	27-14-11-27
eClass 6.2	27-13-08-05	eClass 7.1	27-13-08-09
eClass 8.1	27-13-08-11	eClass 9.0	27-13-08-11
eClass 9.1	27-13-08-07		

Product information

Descriptive text ordering data	End plate AP VSSC6 1063110000
Descriptive text accessories	Screwdrivers: Torx® 9009170000 Slot 0.8x4.0 9008340000 EMC Set: 1067470000 Marker: WS10/6 1818400000; DEK 6 0468560000; DEK 5 1768260000; SNAPMARK 1805880000

Approvals

Approvals



ROHS	Conform
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Downloads

Approval/Certificate/Document of Conformity	SIL Paper CE PAPER
Brochure/Catalogue	CAT 4.4 ELECTR 16/17 EN
Engineering Data	EPLAN_WSCAD
Engineering Data	STEP
User Documentation	Instruction sheet VSSC

Data sheet

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Drawings



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