

## VSSC6 MOV 60VAC/DC

**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com



Similar to illustration

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

Version	Surge protection for instrumentation and control, Surge protection for measurement and control, $U_P(L/N-PE) \leq 300 \text{ V}$
Order No.	<a href="#">1064600000</a>
Type	VSSC6 MOV 60VAC/DC
GTIN (EAN)	4032248829897
Qty.	8 pc(s).

**VSSC6 MOV 60VAC/DC**
**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

[info@weidmueller.com](mailto:info@weidmueller.com)
[www.weidmueller.com](http://www.weidmueller.com)
**Technical data**
**Dimensions and weights**

Depth	81 mm	Depth (inches)	3.189 inch
Height	88.5 mm	Height (inches)	3.484 inch
Width	7.2 mm	Width (inches)	0.283 inch
Net weight	49.375 g		

**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	4,391 Jahre	SFF	100 %
$\lambda_{ges}$	26	PFH in $1 \cdot 10^{-9}$ per hour	0

**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. $I_i$	12 A
Input voltage, max. $U_i$	106 V	Internal capacity, max. $C_i$	2,7 nF
Internal inductance, max. $L_i$	0 $\mu$ H		

**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
--------------------	---	------------------------	-----

**VSSC6 MOV 60VAC/DC**

Weidmüller Interfaces GmbH &amp; Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

**Technical data**

info@weidmueller.com

www.weidmueller.com

**Rated data IEC / EN**

Capacitance	1.78 nF	Discharge current $I_{\max}$ (8/20 $\mu$ s) wire-PE	1.5 kA
Discharge current $I_n$ (8/20 $\mu$ s) wire-PE	1 kA	Discharge current, max. (8/20 $\mu$ s)	9 kA
Insertion loss	$\leq 1.0$ dB	Max. continuous voltage, $U_c$ (AC)	75 V
Max. continuous voltage, $U_c$ (DC)	106 V	Number of poles	1
Overload - failure mode	Mode 1	Protection level $U_p$ (typ.)	$\leq 300$ V
Rated current $I_N$	12 A	Rated voltage (AC)	60 V
Rated voltage (DC)	85 V	Requirements category acc. to IEC 61643-21	C1, C2
Standards	According to IEC61643-21	Surge current-carrying capacity C1	0.5 kA 8/20 $\mu$ s 1 kV 1.2/50 $\mu$ s
Surge current-carrying capacity C2	1 kA 8/20 $\mu$ s	Voltage type	AC/DC
Volume resistance	$<0.1 \Omega$		

**Further details of approvals**

GOST certificate GOST-Zertifikat

**Connection data**

Stripping length	10 mm	Type of connection	Screw connection
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.8 Nm
Clamping range, min.	0.5 mm <sup>2</sup>	Clamping range, max.	4 mm <sup>2</sup>
Wire cross-section, solid, min.	0.5 mm <sup>2</sup>	Wire cross-section, solid, max.	6 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	4 mm <sup>2</sup>
Connection cross-section, stranded, min.	0.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	4 mm <sup>2</sup>

**Classifications**

ETIM 6.0	EC000943	ETIM 7.0	EC000943
ETIM 8.0	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	ECLASS 12.0	27-17-90-90

**Tender specification sheets**

Long specification	Feed-through terminal, 6.2mm wide with varistors between the two signal lines and the mounting rail potential, TS 35 contact base. A signal with max. 12A 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 varistors (MOV) between two signal lines and the mounting rail potential, TS 35 contact base. Version: 60 V UC
--------------------	---	---------------------	---

Creation date December 30, 2022 1:59:21 PM CET

Catalogue status 16.12.2022 / We reserve the right to make technical changes.

3

**Data sheet**

**VSSC6 MOV 60VAC/DC**

**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

[info@weidmueller.com](mailto:info@weidmueller.com)

[www.weidmueller.com](http://www.weidmueller.com)

**Technical data**

**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1	<a href="http://www.weidmueller.com">www.weidmueller.com</a>
------------	----------------	--

**Important note**

Product information	Mode 1: State where the voltage-limiting part of the SPD was disconnected. The voltage limiting function is no longer available, but the cable is still functional.
---------------------	---

**Approvals**

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UL)	E311081

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">SIL Paper</a> <a href="#">EU_Konformitätserklärung / EU_Declaration_of_Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Engineering Data	<a href="#">WSCAD</a>
User Documentation	<a href="#">Beipackzettel / Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	

**Data sheet**

**VSSC6 MOV 60VAC/DC**

**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

**Drawings**



Similar to illustration

