

**MCZ SERIES**  
**MCZ OVP SL 24VDC 0,5A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

Fon: +49 5231 14-0

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www.weidmueller.com



- Slimline overvoltage protection terminal with tension clamp connection
- 6 mm Slimline fine overvoltage protection
- fast wiring thanks to TS contact and tension clamp connections
- can be cross-connected

**General ordering data**

Type	MCZ OVP SL 24VDC 0,5A
Order No.	<a href="#">8448940000</a>
Version	MCZ SERIES, Surge protection for instrumentation and control, 0.5 A
GTIN (EAN)	4032248022816
Qty.	10 pc(s).

Creation date July 9, 2020 10:07:46 PM CEST

Catalogue status 26.06.2020 / We reserve the right to make technical changes.

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**Technical data****Dimensions and weights**

Width	6 mm	Width (inches)	0.236 inch
Height	91 mm	Height (inches)	3.583 inch
Depth	63.5 mm	Depth (inches)	2.5 inch
Net weight	23.7 g		

**Temperatures**

Operating temperature, max.	60 °C	Operating temperature, min.	-40 °C
Storage temperature, max.	85 °C	Storage temperature, min.	-40 °C
Operating temperature	-40 °C...60 °C	Storage temperature	-40 °C...85 °C

**Environmental Product Compliance**

REACH SVHC Lead 7439-92-1

**Rated data UL**

Certificate No. (UL) E311081

**General data**

Colour	black	Design	Terminal
Height with TS 35	63.5 mm	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
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**Rated data IEC / EN**

Rated voltage (DC)	24 V	Rated voltage (DC), max.	28 V
Voltage type	DC	Max. continuous voltage, U <sub>c</sub> (AC)	28 V
Discharge current, max. (8/20 µs)	5 kA	Discharge current, I <sub>imp</sub> (10/350 µs)	1 kA
Lightning test current I <sub>imp</sub> (10/350 µs)	1 kA	Fuse	0.5 A
Protection level on output side Wire-PE 1kV/µs, typically	40 V	Protection level on output side Wire-PE 8/20 µs, typically	65 V
Protection level on output side Wire-wire 1 kV/µs, typically	80 V	Protection level on output side Wire-wire 8/20 µs, typically	130 V
Inductance L and L1	75 µH	Limiting frequency (-3 dB) at load resistance	500 kHz 240 Ω
Load resistance (for limiting frequency)	240 Ω	Operating current, I <sub>max.</sub>	0.5 A
Operating voltage	28 V	Rated current I <sub>N</sub>	0.5 A
Requirements category acc. to IEC 61643-21	D1	Response time	≤ 100 ps
Volume resistance	2.50 Ω		

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## Technical data

### Connection data

Cross-section	1.5 mm <sup>2</sup>	Wire connection method	Spring connection
Type of connection	Tension-clamp connection	Stripping length, rated connection	8 mm
Clamping range, rated connection	1.5 mm <sup>2</sup>	Clamping range, min.	0.5 mm <sup>2</sup>
Clamping range, max.	1.5 mm <sup>2</sup>	Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 16	Wire cross-section, solid, min.	0.5 mm <sup>2</sup>
Wire cross-section, solid, max.	1.5 mm <sup>2</sup>	Wire connection cross-section, finely stranded, min.	0.5 mm <sup>2</sup>
Wire connection cross section, finely stranded, max.	1.5 mm <sup>2</sup>	Wire cross-section, finely stranded, min. (AWG)	AWG 26
Wire cross-section, finely stranded, max. (AWG)	AWG 16	Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min.	0.5 mm <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 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.	1.5 mm <sup>2</sup>	Blade size	0.6 x 3.5 mm

### Classifications

ETIM 6.0	EC000943	ETIM 7.0	EC000943
eClass 9.0	27-13-08-07	eClass 9.1	27-13-08-07
eClass 10.0	27-13-08-07	UNSPSC	30-21-18-11

### Approvals

Approvals



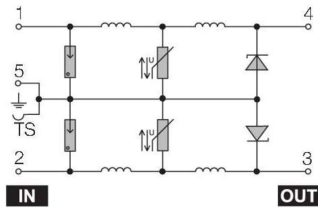
ROHS Conform

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">CE PAPER</a> <a href="#">Declaration of Conformity</a>
Brochure/Catalogue	<a href="#">CAT 4.4 ELECTR 16/17 EN</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Instruction sheet</a>

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**Drawings****Electric symbol**

Circuit diagram