

MCZ SERIES
MCZ OVP SL 48VUC 0,5A

Weidmüller Interface GmbH & Co. KG
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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

Order No.	8449030000
Type	MCZ OVP SL 48VUC 0,5A
Version	MCZ SERIES, Surge protection for instrumentation and control, 48 V, Surge protection for measurement and control
GTIN (EAN)	4008190151621
Qty.	10 pc(s).

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Technical data

Dimensions and weights

Width	6 mm	Height	91 mm
Depth	63.5 mm	Weight	27.46 g
Net weight	23.7 g		

Temperatures

Operating temperature	-40 °C...+60 °C	Storage temperature	-40 °C...+85 °C
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General data

Design	Terminal	Segment	Instrumentation and Control
UL 94 flammability rating	V-0		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Interference voltage

Protection level on output side Wire-wire 1 kV/μs, typically	160 V	Protection level on output side Wire-wire 8/20 μs, typically	300 V
Protection level on output side Wire-PE 1kV/μs, typically	82 V	Protection level on output side Wire-PE 8/20 μs, typically	150 V

Protective elements

Gas discharge tube	Yes
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Technical data

AC/DC/UC	AC/DC	Colour	Black
Cross-section	1.5 mm ²	Discharge current, max. (10/350 μs)	1 kA
Inductance L and L1	75 μH	Limiting frequency (-3 dB) at load resistance	500 kHz 240 Ω
Operating voltage	53 V	Protection level on output side Wire-PE 8/20 μs, typically	150 V
Protection level on output side Wire-wire 8/20 μs, typically	300 V	Rated voltage (AC/DC)	48 V
Rated voltage (DC), max.	70 V	Rated voltage (AC)	48 V
Requirements category acc. to IEC 61643-21	D1	Volume resistance	2.50 Ω
Rated current	0.5 A	Rated voltage	48 V
Rated voltage (DC)	48 V	Max. continuous voltage, U _c (AC)	53 V
Operating current, I _{max}	0.5 A	Lightning test current I _{imp} (10/350 μs)	1 kA
Discharge current, max. (8/20 μs)	5 kA	Sparkover time / Drop-out time	≤ 100 ps
Fusing	0.5 A		

Connection data

Clamping range, rated connection	1.5 mm ²	Clamping range, rated connection, min.	0.5 mm ²
Clamping range, rated connection, max.	1.5 mm ²	Wire connection cross section, finely stranded, max.	1.5 mm ²

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Technical data

Rated data UL

Certificate No. (UL) E311081VOL1SEC1

Classifications

ETIM 2.0	EC000943	ETIM 3.0	EC000943
UNSPSC	30-21-18-11	eClass 4.1	27-14-11-27
eClass 5.1	27-14-11-27	eClass 6.0	27-13-08-02
eClass 7.0	27-37-16-04		

Approvals

Approvals



Downloads

Declaration of Conformity [K177_03_09.pdf](#)
[3-D model](#)

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Drawings**Electric symbol**