MCZ SERIES
MCZ OVP SL 24VDC 0,5A

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 16
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.	8448940000
Version	MCZ SERIES, Surge protection for instrumentation and control, 0.5 A
GTIN (EAN)	4032248022816
Qty.	10 pc(s).

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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

Rated data IEC / EN

Discharge current, I_{imp} (10/350 µs)	1 kA	Discharge current, max. (8/20 µs)	5 kA
Fuse	0.5 A	Inductance L and L1	75 µH
Lightning test current I_{imp} (10/350 µs)	1 kA	Limiting frequency (-3 dB) at load resistance	500 kHz 240 Ω
Load resistance (for limiting frequency)	240 Ω	Max. continuous voltage, Uc (AC)	28 V
Operating current, $I_{max.}$	0.5 A	Operating voltage	28 V
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
Rated current I_N	0.5 A	Rated voltage (DC)	24 V
Rated voltage (DC), max.	28 V	Requirements category acc. to IEC 61643-21	D1
Response time	≤ 100 ps	Voltage type	DC
Volume resistance	2.50 Ω		

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Connection data

Cross-section	1.5 mm²	Wire connection method	Tension-clamp connection
Type of connection	Tension-clamp connection	Stripping length, rated connection	8 mm
Clamping range, rated connection	1.5 mm²	Clamping range, min.	0.5 mm²
Clamping range, max.	1.5 mm²	Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 16	Wire cross-section, solid, min.	0.5 mm²
Wire cross-section, solid, max.	1.5 mm²	Wire connection cross-section, finely stranded, min.	0.5 mm²
Wire connection cross section, finely stranded, max.	1.5 mm²	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 mm²
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm²	Blade size	0.6 x 3.5 mm

Classifications

ETIM 3.0	EC000943	ETIM 4.0	EC000381
ETIM 5.0	EC000381	ETIM 6.0	EC000943
UNSPSC	30-21-18-11	eClass 5.1	27-14-11-27
eClass 6.2	27-13-08-02	eClass 7.1	27-37-16-04
eClass 8.1	27-37-16-04	eClass 9.0	27-13-08-07
eClass 9.1	27-13-08-07		

Approvals

Approvals	
ROHS	Conform

Downloads

Approval/Certificate/Document of Conformity	CE PAPER Declaration of Conformity
Brochure/Catalogue	CAT 4.4 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD
Engineering Data	STEP
User Documentation	Instruction sheet

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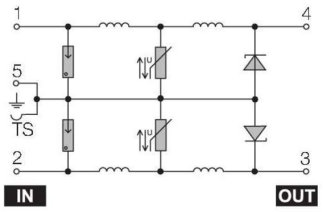
Drawings

Electric symbol



Circuit diagram