

MCZ OVP CL 24VDC 0,5A

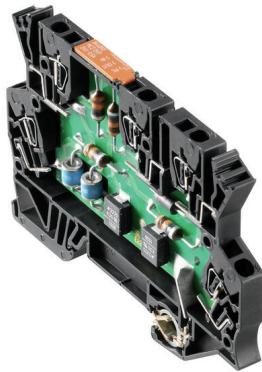
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

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

| | |
|------------|---|
| Version | Surge protection for instrumentation and control, Surge protection for measurement and control |
| Order No. | 8448920000 |
| Type | MCZ OVP CL 24VDC 0,5A |
| GTIN (EAN) | 4008 190147396 |
| Qty. | 10 items |

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (UL) E311081

Dimensions and weights

| | | | |
|------------|---------|-----------------|-------------|
| Depth | 63.5 mm | Depth (inches) | 2.5 inch |
| Height | 91 mm | Height (inches) | 3.5827 inch |
| Width | 6 mm | Width (inches) | 0.2362 inch |
| Net weight | 23.1 g | | |

Temperatures

| | | | |
|---------------------|----------------|-----------------------|-------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -40 °C...60 |
|---------------------|----------------|-----------------------|-------------|

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 7a |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | c9db83e7-2b25-44e1-8d26-da64d426373f |

Rated data UL

| | |
|----------------------|---------|
| Certificate No. (UL) | E311081 |
|----------------------|---------|

General data

| | | | |
|---------------|---------------------------------------|---------------------------|---|
| Segment | Measurement - Monitoring - Setting | Version | Surge protection for measurement and control |
| Design | Terminal | UL 94 flammability rating | V-0 |
| Colour | black | Protection degree | IP20 |
| Mounting rail | TS 35 | Height with TS 35 | 63.5 mm |

Insulation coordination acc. to EN 50178

| | | | |
|------------------------|-----|--------------------|---|
| Surge voltage category | III | Pollution severity | 2 |
|------------------------|-----|--------------------|---|

Rated data IEC / EN

| | | | |
|--|----------|---|-----------------|
| Discharge current, Iimp (10/350 µs) | 1 kA | Rated voltage (DC), max. | 28 V |
| Rated voltage (DC) | 24 V | Rated current I _N | 0.5 A |
| Protection level on output side Wire-wire 40 V 1 kV/µs, typically | | Protection level on output side Wire-PE 1kV/µs, typically | 40 V |
| Protection level on output side Wire-wire 65 V 8/20 µs, typically | | Protection level on output side Wire-PE 8/20 µs, typically | 65 V |
| Voltage type | DC | Fuse protection | 0.5 A |
| Response time / fallback time | ≤ 100 ps | Operating voltage | 28 V |
| Volume resistance | 2.50 Ω | Standards | HART-compatible |
| Operating current, I _{max} . | 0.5 A | Lightning test current Iimp (10/350 µs) | 1 kA |

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|--|-------|---|---------------|
| Discharge current, max. (8/20 µs) | 5 kA | Requirements category acc. to IEC 61643-21 | D1 |
| Load resistance (for limiting frequency) | 240 Ω | Limiting frequency (-3 dB) at load resistance | 500 kHz 240 Ω |
| Max. continuous voltage, U _c (AC) | 28 V | Inductance L and L1 | 75 µH |

Connection data

| | | | |
|---|---------------------|---|--------------------------|
| Stripping length | 8 mm | Cross-section | 1.5 mm ² |
| Wire connection method | Spring connection | Type of connection | Tension-clamp connection |
| Stripping length, rated connection | 8 mm | Clamping range, rated connection | 1.5 mm ² |
| Clamping range, min. | 0.5 mm ² | Clamping range, max. | 1.5 mm ² |
| Wire connection cross section AWG, min. | AWG 26 | Wire connection cross section AWG, max. | AWG 16 |
| Wire cross-section, solid, min. | 0.5 mm ² | Wire cross-section, solid, max. | 1.5 mm ² |
| Wire cross-section, solid, min. (AWG) | AWG 26 | Wire cross-section, solid, max. (AWG) | AWG 16 |
| Wire connection cross section, finely stranded, min. | 0.5 mm ² | Wire connection cross section, finely stranded, max. | 1.5 mm ² |
| 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 ² | Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 1.5 mm ² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 0.5 mm ² | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 1.5 mm ² |
| Blade size | 0.6 x 3.5 mm | | |

Electrical data

| | |
|--------------|----|
| Voltage type | DC |
|--------------|----|

General data

| | | | |
|-------------------|------|--------|-------|
| Protection degree | IP20 | Colour | black |
|-------------------|------|--------|-------|

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC000943 | ETIM 9.0 | EC000943 |
| ETIM 10.0 | EC000943 | ECLASS 14.0 | 27-17-15-01 |
| ECLASS 15.0 | 27-17-15-01 | | |

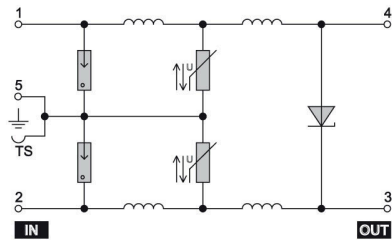
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Drawings

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Electric symbol



Circuit diagram