

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

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://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,<br>Surge protection for measurement and control |
| Order No.  | <a href="#">8448920000</a>                                                                        |
| Type       | MCZ OVP CL 24VDC 0,5A                                                                             |
| GTIN (EAN) | 4008190147396                                                                                     |
| Qty.       | 10 pièce(s)                                                                                       |

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**Caractéristiques techniques****Dimensions and weights**

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 63,5 mm | Depth (inches)  | 2,5 inch   |
| Height     | 91 mm   | Height (inches) | 3,583 inch |
| Width      | 6 mm    | Width (inches)  | 0,236 inch |
| Net weight | 23,1 g  |                 |            |

**Temperatures**

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

**Rated data UL**

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

**General data**

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

**Insulation coordination acc. to EN 50178**

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

**Rated data IEC / EN**

|                                                                       |               |                                                                      |                      |
|-----------------------------------------------------------------------|---------------|----------------------------------------------------------------------|----------------------|
| Discharge current, $I_{imp}$ (10/350 $\mu$ s)                         | 1 kA          | Discharge current, max. (8/20 $\mu$ s)                               | 5 kA                 |
| Fuse                                                                  | 0.5 A         | Inductance L and L1                                                  | 75 $\mu$ H           |
| Lightning test current $I_{imp}$ (10/350 $\mu$ s)                     | 1 kA          | Limiting frequency (-3 dB) at load resistance                        | 500 kHz 240 $\Omega$ |
| Load resistance (for limiting frequency)                              | 240 $\Omega$  | Max. continuous voltage, $U_c$ (AC)                                  | 28 V                 |
| Operating current, $I_{max}$                                          | 0,5 A         | Operating voltage                                                    | 28 V                 |
| Protection level on output side Wire-PE<br>1kV/ $\mu$ s, typically    | 40 V          | Protection level on output side Wire-PE<br>8/20 $\mu$ s, typically   | 65 V                 |
| Protection level on output side Wire-wire<br>1 kV/ $\mu$ s, typically | 40 V          | Protection level on output side Wire-wire<br>8/20 $\mu$ s, typically | 65 V                 |
| Rated current $I_N$                                                   | 0,5 A         | Rated voltage (DC)                                                   | 24 V                 |
| Rated voltage (DC), max.                                              | 28 V          | Requirements category acc. to IEC<br>61643-21                        | D1                   |
| Response time                                                         | $\leq 100$ ps | Standards                                                            | HART-compatible      |
| Voltage type                                                          | DC            | Volume resistance                                                    | 2.50 $\Omega$        |

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## Caractéristiques techniques

## Connection data

|                                                                                         |                     |                                                                                         |                          |
|-----------------------------------------------------------------------------------------|---------------------|-----------------------------------------------------------------------------------------|--------------------------|
| Cross-section                                                                           | 1,5 mm <sup>2</sup> | Stripping length                                                                        | 8 mm                     |
| 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 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 <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        |                                                                                         |                          |

## Electrical data

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

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000943    | ETIM 7.0    | EC000943    |
| ETIM 8.0    | EC000943    | ETIM 9.0    | 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 | ECLASS 13.0 | 27-17-90-90 |
| ECLASS 14.0 | 27-17-90-90 |             |             |

## 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 |

## Approvals

Approvals



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

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## Caractéristiques techniques

### Downloads

Approval/Certificate/Document of  
Conformity

[EU\\_Konformitätserklärung / EU\\_Declaration\\_of\\_Conformity](#)

Engineering Data

[CAD data – STEP](#)

User Documentation

[Beipackzettel / Instruction sheet](#)

Catalogues

[Catalogues in PDF-format](#)

Brochures

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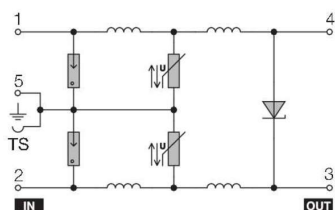
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## Dessins

### Electric symbol



Circuit diagram