

**MCZ SERIES**  
**MCZ OVP SL 24VUC 1,25A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 14-0

Fax: +49 5231 14-292083

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 24VUC 1,25A                                               |
| Order No.  | <a href="#">8448970000</a>                                           |
| Version    | MCZ SERIES, Surge protection for instrumentation and control, 1.25 A |
| GTIN (EAN) | 4032248052998                                                        |
| 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 | 25.2 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<br>- Setting           |
| UL 94 flammability rating | V-0     | Version           | Surge protection for<br>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 $\mu$ s)                         | 1 kA         | Discharge current, max. (8/20 $\mu$ s)                               | 5 kA                 |
| Fuse                                                                  | 1.3 A        | Inductance L and L1                                                  | 35 $\mu$ H           |
| Lightning test current $I_{imp}$ (10/350 $\mu$ s)                     | 1 kA         | Limiting frequency (-3 dB) at load<br>resistance                     | 500 kHz 240 $\Omega$ |
| Load resistance (for limiting frequency)                              | 240 $\Omega$ | Max. continuous voltage, $U_c$ (AC)                                  | 28 V                 |
| Operating current, $I_{max}$                                          | 1.25 A       | Operating voltage                                                    | 34 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 | 80 V         | Protection level on output side Wire-wire<br>8/20 $\mu$ s, typically | 130 V                |
| Rated current $I_N$                                                   | 1.25 A       | Rated voltage (AC)                                                   | 24 V                 |
| Rated voltage (DC)                                                    | 24 V         | Rated voltage (DC), max.                                             | 38 V                 |
| Requirements category acc. to IEC<br>61643-21                         | D1           | Response time                                                        | $\leq 100$ ps        |
| Voltage type                                                          | AC/DC        | Volume resistance                                                    | 1.00 $\Omega$        |

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### Connection data

|                                                                                         |                          |                                                                                         |                          |
|-----------------------------------------------------------------------------------------|--------------------------|-----------------------------------------------------------------------------------------|--------------------------|
| Cross-section                                                                           | 1.5 mm <sup>2</sup>      | Wire connection method                                                                  | Tension-clamp 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 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

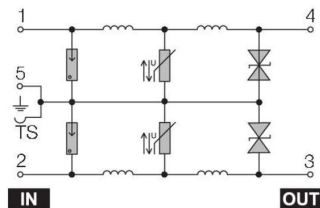
|                                             |                                                                       |
|---------------------------------------------|-----------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">CE PAPER</a><br><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