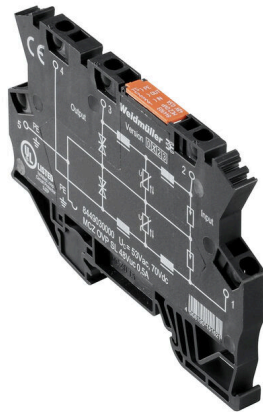


MCZ OVP SL 48VUC 0,5A

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. | 8449030000 |
| Type | MCZ OVP SL 48VUC 0,5A |
| GTIN (EAN) | 4008 19015162 1 |
| 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 | 23.7 g | | |

Temperatures

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

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 (AC) | 48 V |
| Rated voltage (DC), max. | 70 V | Rated voltage (DC) | 48 V |
| Rated current I _N | 0.5 A | Protection level on output side Wire-wire | 160 V 1 kV/µs, typically |
| Protection level on output side Wire-PE | 82 V 1kV/µs, typically | Protection level on output side Wire-wire | 300 V 8/20 µs, typically |
| Protection level on output side Wire-PE | 150 V 8/20 µs, typically | Voltage type | AC/DC |
| Fuse protection | 0.5 A | Response time / fallback time | ≤ 100 ps |
| Operating voltage | 48 V | Volume resistance | 2.50 Ω |
| 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) | 53 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 | AC/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 | | |

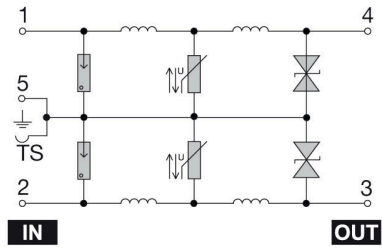
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Drawings

Electric symbol



Circuit diagram

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Accessories

Steel



Steel DIN rails are the most widespread on the market. Among metal DIN rails, they have the lowest shortcircuit protection, similar to stainless steel.

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | TS 35X7.5 2M/ST/ZN | Version | |
| Order No. | 0383400000 | Terminal rail, Accessories, Steel, galvanic zinc plated and passivated, | |
| GTIN (EAN) | 4008190088026 | Width: 2000 mm, Height: 35 mm, Depth: 7.5 mm | |
| Qty. | 40 M | | |

End bracket



Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | EW 35 | Version | |
| Order No. | 0383560000 | End bracket, beige, TS 35, V-2, Wemid, Width: 8.5 mm, 100 °C | |
| GTIN (EAN) | 4008190181314 | | |
| Qty. | 50 ST | | |

Steel



Steel DIN rails are the most widespread on the market. Among metal DIN rails, they have the lowest shortcircuit protection, similar to stainless steel.

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | TS 35X15/2.3 2M/ST/ZN | Version | |
| Order No. | 0498000000 | Terminal rail, Accessories, Steel, galvanic zinc plated and passivated, | |
| GTIN (EAN) | 4008190042493 | Width: 2000 mm, Height: 35 mm, Depth: 15 mm | |
| Qty. | 20 M | | |

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Accessories

AP MCZ 1.5 - End plate



Open miniature housing in modular terminal format with five tension clamp connections. A transparent hinged top plate can be used for labelling and provides access to potentiometer and status displays. Plug-in cross-connectors can be used to interconnect the three top connections. A cover plate for closing off the housing is also available.

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | AP MCZ1.5 SW 1683 | Version | |
| Order No. | 1046410000 | End plate, OMNIMATE Housing - TERMINALBOX black, End plate, | |
| GTIN (EAN) | 4032248782246 | Width: 1.5 mm | |
| Qty. | 50 ST | | |

Slotted screwdriver



VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

General ordering data

| | | | |
|------------|----------------------------|--------------------------|--|
| Type | SDIS 0.6X3.5X100 | Version | |
| Order No. | 9008390000 | Screwdriver, Screwdriver | |
| GTIN (EAN) | 4032248056354 | | |
| Qty. | 1 ST | | |