

MCZ R 24VUC**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**Product image**

High reliability in a terminal block format
MCZ SERIES relay modules are among the smallest on the market. Thanks to the small width of just 6.1 mm, a lot of space can be saved in the panel. All products in the series have three cross-connection terminals and are distinguished by simple wiring with plug-in cross-connections. The tension clamp connection system, proven a million times over, and the integrated reverse polarity protection ensure a high level of safety during installation and operation. Precisely fitting accessories from cross-connectors to markers and end plates make the MCZ SERIES versatile and convenient to use.

- Tension clamp connection
- Integrated cross-connection in input/output.
- Clampable conductor cross-section is 0.5 to 1.5 mm²
- Variants of the MCZ TRAK type are particularly suitable for the transport sector and tested according to DIN EN 50155

General ordering data

| | |
|------------|---|
| Version | MCZ SERIES, Relay module, Number of contacts: 1, CO contact AgSnO, Rated control voltage: 24 V UC $\pm 10\%$, Continuous current: 6 A, Tension-clamp connection, Test button available: No |
| Order No. | 8390590000 |
| Type | MCZ R 24VUC |
| GTIN (EAN) | 4008190213060 |
| Qty. | 10 pc(s). |

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Technical data

Dimensions and weights

| | | | |
|------------|---------|-----------------|------------|
| Depth | 63.2 mm | Depth (inches) | 2.488 inch |
| Height | 91 mm | Height (inches) | 3.583 inch |
| Width | 6.1 mm | Width (inches) | 0.24 inch |
| Net weight | 27.2 g | | |

Temperatures

| | | | |
|---------------------|---|-----------------------|----------------|
| Storage temperature | -40 °C...60 °C | Operating temperature | -25 °C...50 °C |
| Humidity | 5 - 93% rel. humidity, Tu = 40°C, no condensation | | |

Rated data UL

| | |
|-------------------------|---------|
| Certificate No. (cURus) | E141197 |
|-------------------------|---------|

Control side

| | | | |
|-----------------------|----------------|--------------------|------------------|
| Rated control voltage | 24 V UC ± 10 % | Rated current AC | 11 mA |
| Rated current DC | 6.4 mA | Power rating | 270 mVA / 154 mW |
| Status indicator | Green LED | Protective circuit | Rectifier |

Load side

| | | | |
|---|---|---|---------------------------------------|
| Rated switching voltage | 250 V AC | Continuous current | 6 A |
| Max. switching frequency at rated load | 0.1 Hz | Max. switching voltage, AC | 250 V |
| Max. switching voltage, DC | 250 V | Inrush current | 6 A |
| AC switching capacity (resistive), max. | 1500 VA | DC switching capacity (resistive), max. | 144 W @ 24 V |
| Switch-on delay | <6 ms | Switch-off delay | <35 ms |
| Contact type | 1 CO contact (AgSnO) | Mechanical service life | 10 x 10 ⁶ switching cycles |
| Min. switching power | 1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V | | |

General data

| | | |
|--------------------------------------|--------------------------|---------|
| Rail | TS 35 | |
| Test button available | No | |
| Mechanical switch position indicator | No | |
| Open sides | right | |
| Colour | beige | |
| UL94 flammability rating component | Component | Housing |
| | UL94 flammability rating | V-0 |

Insulation coordination

| | | | |
|--|---------------------------|---|------------------------------|
| Rated voltage | 300 V | Pollution severity | 2 |
| Surge voltage category | III | Clearance and creepage distances for control side - load side | ≥ 5.5 mm |
| Dielectric strength for control side - load side | 4 kV _{eff} / 1 s | Dielectric strength to mounting rail | 4 kV _{eff} / 1 Min. |
| Impulse withstand voltage | 4 kV (1.2/50 µs) | Protection degree | IP20 |

Further details of approvals / standards

| | | | |
|-----------------------|----------------|-------------------------|---------|
| Certificate No. (CSA) | 154685-1198742 | Certificate No. (cURus) | E141197 |
|-----------------------|----------------|-------------------------|---------|

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Technical data

Connection data

| | | | |
|---|--------------------------|---|---------------------|
| Wire connection method | 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 |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC001437 | ETIM 7.0 | EC001437 |
| ETIM 8.0 | EC001437 | ETIM 9.0 | EC001437 |
| ECLASS 9.0 | 27-37-16-01 | ECLASS 9.1 | 27-37-16-01 |
| ECLASS 10.0 | 27-37-16-01 | ECLASS 11.0 | 27-37-16-01 |
| ECLASS 12.0 | 27-37-16-01 | ECLASS 13.0 | 27-37-16-01 |

Environmental Product Compliance

| | |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 35d83707-6a3b-45b5-b9f8-6ba8184c863e |

Important note

| | |
|---------------------|---|
| Product information | The cable lengths must not exceed 30 m. |
|---------------------|---|

Approvals

Approvals



| | |
|-------------------------|------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (cURus) | E141197 |

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Technical data

Downloads

Approval/Certificate/Document of Con-
formity

[EU Konformitätserklärung / EU Declaration of Conformity](#)

Engineering Data

[CAD data – STEP](#)

Engineering Data

[Zuken E3.S](#)

User Documentation

[Device description – Beipackzettel / Package Insert – multilingual](#)

Catalogues

[Catalogues in PDF-format](#)

Brochures

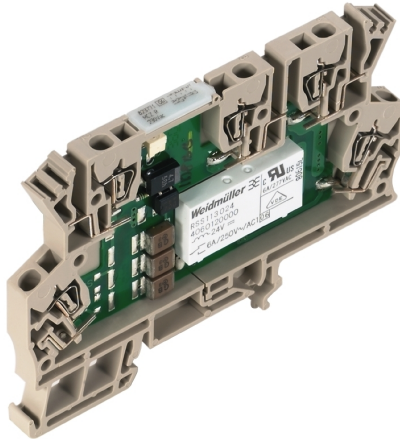
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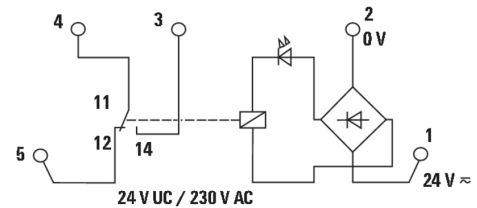
Drawings

Product image

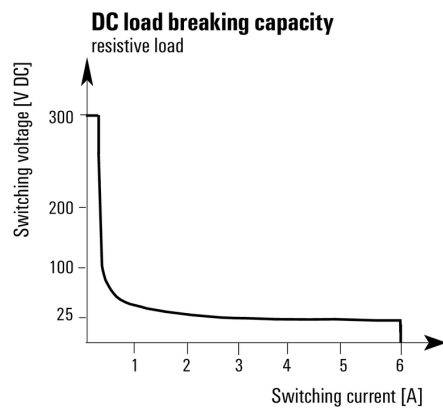


Similar to illustration

Wiring diagram

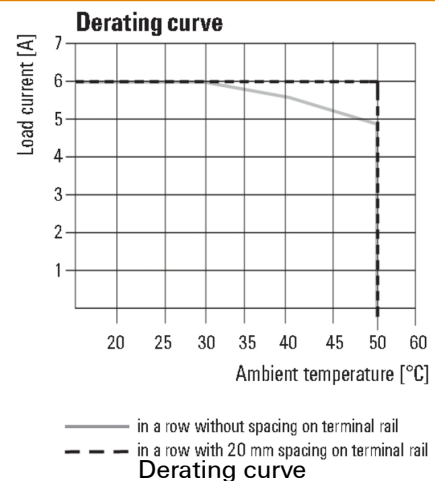


Graph

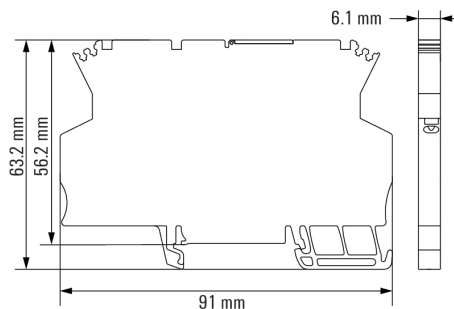


DC load limit curve

Graph



Dimensional drawing



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Accessories

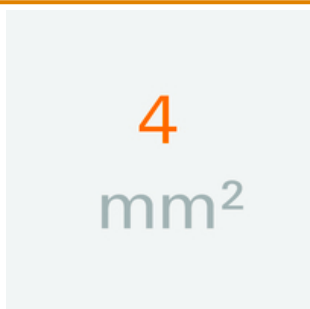
Slotted screwdriver



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

General ordering data

| Type | SDIS SLIM 0.6X3.5X100 | Version |
|------------|----------------------------|---|
| Order No. | 2749610000 | Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade |
| GTIN (EAN) | 4050118896350 | thickness (A): 0.6 mm |
| Qty. | 1 pc(s). | |

4 mm²

The plug-in cross-connections feature easy handling and quick installation. This saves a great deal of time during installation in comparison with screwed solutions.

General ordering data

| Type | ZQV 4N/3 SW | Version |
|------------|----------------------------|---------------------------------|
| Order No. | 1794000000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233793 | |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/4 SW | Version |
| Order No. | 1794030000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233915 | |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/20 BL | Version |
| Order No. | 1909100000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248535774 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 4N/20 RT | Version |
| Order No. | 1909150000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248535934 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 4N/2 SW | Version |
| Order No. | 1793970000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248233762 | |
| Qty. | 60 pc(s). | |

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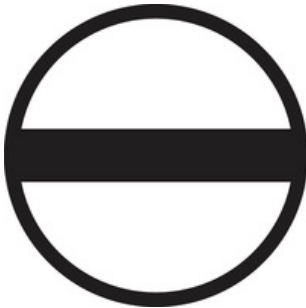
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Accessories

| | | |
|------------|----------------------------|---------------------------------|
| Type | ZQV 4N/20 GE | Version |
| Order No. | 1909020000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248535644 | |
| Qty. | 20 pc(s). | |
| Type | ZQV 4N/10 SW | Version |
| Order No. | 1794060000 | W-Series, Cross-connector, 32 A |
| GTIN (EAN) | 4032248234059 | |
| Qty. | 20 pc(s). | |

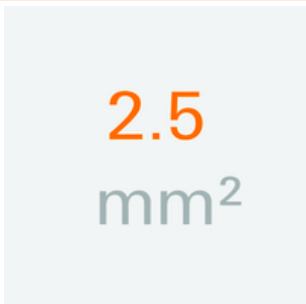
Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

General ordering data

| | | |
|------------|----------------------------|---|
| Type | SDS 0.6X3.5X100 | Version |
| Order No. | 2749340000 | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade |
| GTIN (EAN) | 4050118895568 | thickness (A): 0.6 mm |
| Qty. | 1 pc(s). | |

2.5 mm²

The plug-in cross-connections feature easy handling and quick installation. This saves a great deal of time during installation in comparison with screwed solutions.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | ZQV 2.5N/20 SW | Version |
| Order No. | 1909130000 | W-Series, Cross-connector, For the terminals, Number of poles: 20 |
| GTIN (EAN) | 4032248535910 | |
| Qty. | 20 pc(s). | |

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Accessories

Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with PrintJet CONNECT oder/or Plotter is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | WS 10/6 MC NE WS | Version |
| Order No. | 1828450000 | WS, Terminal marker, 10 x 6 mm, Pitch in mm (P): 6.00 Weidmueller, |
| GTIN (EAN) | 4032248350513 | Allen-Bradley, white |
| Qty. | 600 pc(s). | |

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 1674 | Version |
| Order No. | 8389030000 | Small housing, OMNIMATE Housing - TERMINALBOX grey-beige, End |
| GTIN (EAN) | 4008190386849 | plate, Width: 1.5 mm |
| Qty. | 50 pc(s). | |

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Accessories

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. | 2749810000 | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade |
| GTIN (EAN) | 4050118897012 | thickness (A): 0.6 mm |
| Qty. | 1 pc(s). | |

4 mm²

The plug-in cross-connections feature easy handling and quick installation. This saves a great deal of time during installation in comparison with screwed solutions.

General ordering data

| | | |
|------------|----------------------------|---|
| Type | ZQV 4N/20 | Version |
| Order No. | 2883800000 | Cross-connector (terminal), Plugged, Number of poles: 20, Pitch in mm |
| GTIN (EAN) | 4064675848769 | (P): 6.00, Insulated: Yes, 32 A, orange |
| Qty. | 20 pc(s). | |
| Type | ZQV 4N/2 | Version |
| Order No. | 1527930000 | Cross-connector (terminal), Plugged, Number of poles: 2, Pitch in mm |
| GTIN (EAN) | 4050118332766 | (P): 6.10, Insulated: Yes, 32 A, orange |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/3 | Version |
| Order No. | 1527940000 | Cross-connector (terminal), Plugged, Number of poles: 3, Pitch in mm |
| GTIN (EAN) | 4050118332865 | (P): 6.10, Insulated: Yes, 32 A, orange |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/2 BL | Version |
| Order No. | 1528040000 | Cross-connector (terminal), Plugged, Number of poles: 2, Pitch in mm |
| GTIN (EAN) | 4050118332773 | (P): 6.10, Insulated: Yes, 32 A, blue |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/4 | Version |
| Order No. | 1527970000 | Cross-connector (terminal), Plugged, Number of poles: 4, Pitch in mm |
| GTIN (EAN) | 4050118332889 | (P): 6.10, Insulated: Yes, 32 A, orange |
| Qty. | 60 pc(s). | |

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Accessories

| | | |
|------------|----------------------------|---|
| Type | ZQV 4N/10 | Version |
| Order No. | 1528090000 | Cross-connector (terminal), Plugged, Number of poles: 10, Pitch in mm |
| GTIN (EAN) | 4050118332896 | (P): 6.10, Insulated: Yes, 32 A, orange |
| Qty. | 20 pc(s). | |
| Type | ZQV 4N/2 RD | Version |
| Order No. | 2460450000 | Cross-connector (terminal), Plugged, Number of poles: 2, Pitch in mm |
| GTIN (EAN) | 4050118476149 | (P): 6.10, 32 A, red |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/4 BL | Version |
| Order No. | 1528120000 | Cross-connector (terminal), Plugged, Number of poles: 4, Pitch in mm |
| GTIN (EAN) | 4050118332872 | (P): 6.10, Insulated: Yes, 32 A, blue |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/3 RD | Version |
| Order No. | 2460810000 | Cross-connector (terminal), Plugged, Number of poles: 3, Pitch in mm |
| GTIN (EAN) | 4050118476231 | (P): 6.10, 32 A, red |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/4 RD | Version |
| Order No. | 2460800000 | Cross-connector (terminal), Plugged, Number of poles: 4, Pitch in mm |
| GTIN (EAN) | 4050118476224 | (P): 6.10, Insulated: Yes, 32 A, red |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/10 RD | Version |
| Order No. | 2460740000 | Cross-connector (terminal), Plugged, Number of poles: 10, Pitch in mm |
| GTIN (EAN) | 4050118476163 | (P): 6.10, 32 A, red |
| Qty. | 20 pc(s). | |
| Type | ZQV 4N/3 BL | Version |
| Order No. | 1528080000 | Cross-connector (terminal), Plugged, Number of poles: 3, Pitch in mm |
| GTIN (EAN) | 4050118333008 | (P): 6.10, Insulated: Yes, 32 A, blue |
| Qty. | 60 pc(s). | |
| Type | ZQV 4N/10 BL | Version |
| Order No. | 1528230000 | Cross-connector (terminal), Plugged, Number of poles: 10, Pitch in mm |
| GTIN (EAN) | 4050118333138 | (P): 6.10, Insulated: Yes, 32 A, blue |
| Qty. | 20 pc(s). | |