

MCZ R 24VDC

Weidmüller Interface GmbH & Co. KG

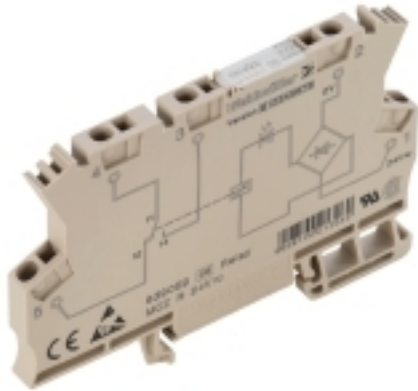
Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image



Similar to illustration

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 DC $\pm 20\%$, Continuous current: 6 A, Tension-clamp connection, Test button available: No |
| Order No. | 8365980000 |
| Type | MCZ R 24VDC |
| GTIN (EAN) | 4008190387839 |
| 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 | 23.4 g | | |

Temperatures

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

Environmental Product Compliance

| | |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

Rated data UL

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

Control side

| | | | |
|-----------------------|--------------------|--------------------------------|---|
| Rated control voltage | 24 V DC \pm 20 % | Rated current DC | 6.3 mA |
| Power rating | 156 mW | Pull-in/drop-out voltage, typ. | 19 V / 4 V DC |
| Status indicator | Green LED | Protective circuit | Free-wheeling diode, Reverse polarity protection |

Load side

| | | | |
|---|---|---|---------------------------------------|
| Rated switching voltage | 250 V AC | Continuous current | 6 A |
| Max. switching frequency at rated load | 0.1 Hz | Max. switching voltage, DC | 250 V |
| Min. switching power | 1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V | Inrush current | 6 A |
| AC switching capacity (resistive), max. | 1500 VA | DC switching capacity (resistive), max. | 144 W @ 24 V |
| Switch-on delay | \leq 5 ms | Switch-off delay | \leq 15 ms |
| Contact type | 1 CO contact (AgSnO) | Mechanical service life | 10 x 10 ⁶ switching cycles |

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 | \geq 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 μ s) | Protection degree | IP20 |

Creation date 21 December 2021 09:12:26 CET

Catalogue status 17.12.2021 / We reserve the right to make technical changes.

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Technical data

Further details of approvals / standards

| | | | |
|-------------------------|---------------------|-----------------------------|----------------|
| Standards | DIN EN 50178, UL508 | Certificate No. (CSA) | 154685-1198742 |
| Certificate No. (DNVGL) | TAE00003BK | Certificate No. (GERMLLOYD) | TAE00003BK |
| Certificate No. (cURus) | E141197 | | |

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 | 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 | | |

Important note

Product information The cable lengths must not exceed 30 m.

Approvals

Approvals



| | |
|-----------------------|---------|
| ROHS | Conform |
| UL File Number Search | E141197 |

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | EU Konformitätserklärung / EU Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| Engineering Data | EPLAN, WSCAD, Zuken E3.S |
| User Documentation | Beipackzettel / Package Insert – multilingual |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

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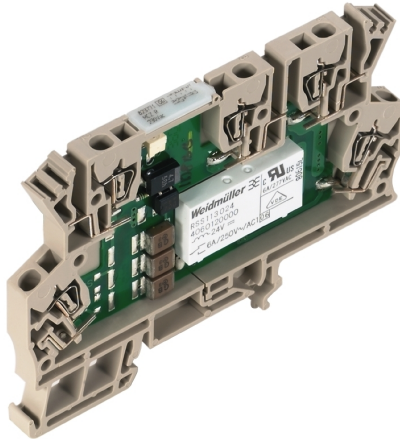
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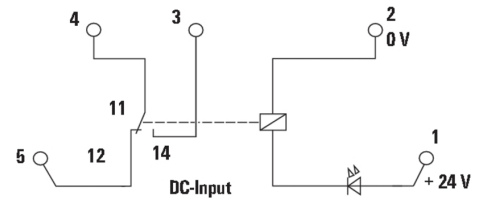
Drawings

Product image

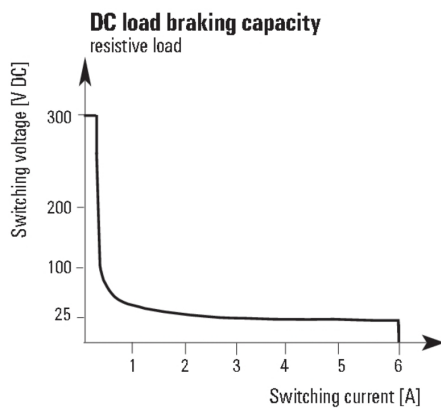


Similar to illustration

Wiring diagram

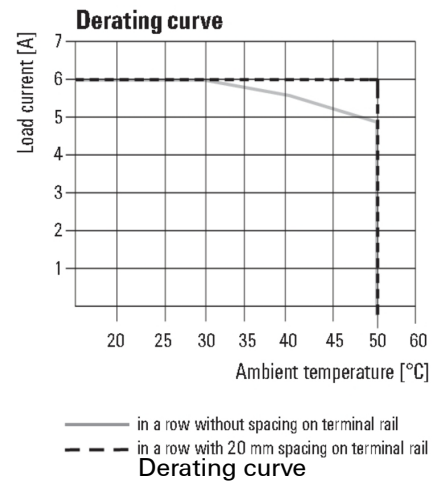


Graph



DC load limit curve

Graph



Dimensional drawing

