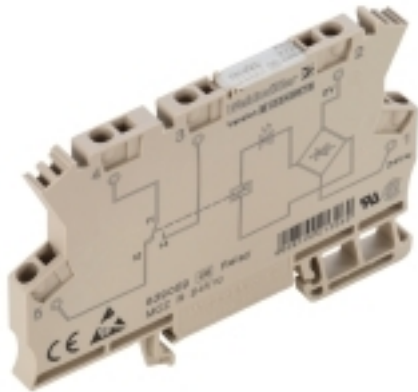


MCZ SERIES MCZ R 230VAC

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
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Similar to illustration

The MCZ R relay couplers, with a width of only 6 mm, are the thinnest in their class.

They are distinguished by the following features:

- Tension clamp connection
- Integrated cross-connection in input/output.
Clampable conductor cross-section is 0.5 to 1.5 mm²

General ordering data

| | |
|------------|---|
| Type | MCZ R 230VAC |
| Order No. | 8237710000 |
| Version | MCZ SERIES, Relay module, Number of contacts: 1, CO contact AgSnO, Rated control voltage: 230 V AC $\pm 10\%$, Continuous current: 6 A, Tension-clamp connection |
| GTIN (EAN) | 4008 190286 187 |
| Qty. | 10 pc(s). |

Creation date August 16, 2020 5:48:47 PM CEST

Catalogue status 24.07.2020 / We reserve the right to make technical changes.

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Technical data**Dimensions and weights**

| | | | |
|------------|---------|-----------------|------------|
| Width | 6.1 mm | Width (inches) | 0.24 inch |
| Height | 91 mm | Height (inches) | 3.583 inch |
| Depth | 63.2 mm | Depth (inches) | 2.488 inch |
| Net weight | 25.2 g | | |

Temperatures

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

Environmental Product Compliance

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

Rated data UL

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

Input

| | | | |
|--------------------------------|------------------|--------------------------------|-----------------|
| Rated control voltage | 230 V AC ± 10 % | Rated current AC | 9.5 mA |
| Power rating | 2.1 VA | Pull-in/drop-out voltage, typ. | 150 V / 60 V AC |
| Pull-in/drop-out current, typ. | 5 mA / 2.5 mA AC | Status indicator | Green LED |
| Protective circuit | Rectifier | | |

Output

| | | | |
|---|--------------|---|---|
| Rated switching voltage | 250 V AC | Max. switching voltage, AC | 250 V |
| Max. switching voltage, DC | 250 V | Continuous current | 6 A |
| Inrush current | 6 A | AC switching capacity (resistive), max. | 1500 VA |
| DC switching capacity (resistive), max. | 144 W @ 24 V | Switch-on delay | < 11 ms |
| Switch-off delay | < 35 ms | Min. switching power | 1 mA @ 24 V, 10 mA @ 10 V, 100 mA @ 5 V |
| Max. switching frequency at rated load | 0.1 Hz | | |

Contact data

| | | | |
|--------------|----------------------|-------------------------|---------------------------------------|
| Contact type | 1 CO contact (AgSnO) | Mechanical service life | 10 x 10 ⁶ switching cycles |
|--------------|----------------------|-------------------------|---------------------------------------|

General data

| | | | |
|--------------------------------------|-------|---------------------------|-------|
| Rail | TS 35 | Test button | No |
| Mechanical switch position indicator | No | Open sides | right |
| Colour | beige | UL 94 flammability rating | V-0 |

Insulation coordination

| | | | |
|--------------------------------------|------------------------------|--|------------------|
| Rated voltage | 300 V | Surge voltage category | III |
| Pollution severity | 2 | Protection degree | IP20 |
| Dielectric strength, Input/Output | 4 kV _{eff} / 1 s | Creepage and clearance distance input - output | ≥ 5.5 mm |
| Dielectric strength to mounting rail | 4 kV _{eff} / 1 Min. | Impulse withstand voltage | 4 kV (1.2/50 μs) |

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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 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 |
| eClass 9.0 | 27-37-16-01 | eClass 9.1 | 27-37-16-01 |
| eClass 10.0 | 27-37-16-01 | UNSPSC | 30-21-19-17 |

Product information

Product information The cable lengths must not exceed 30 m.

Approvals

Approvals



ROHS Conform

Downloads

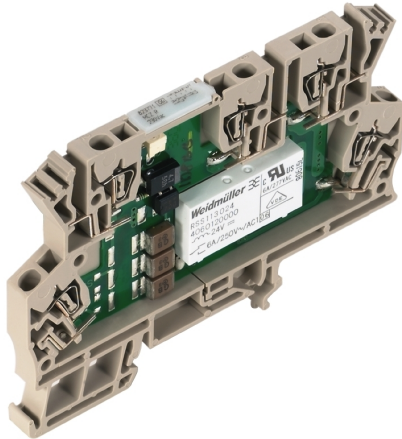
| | |
|---|---|
| Approval/Certificate/Document of Conformity | EU Konformitätserklärung / EU Declaration of Conformity |
| Brochure/Catalogue | CAT 4.2 ELECTR 18/19 EN |
| Engineering Data | EPLAN, WSCAD, Zuken E3.S |
| Engineering Data | STEP |
| User Documentation | Beipackzettel / Package Insert - multilingual |

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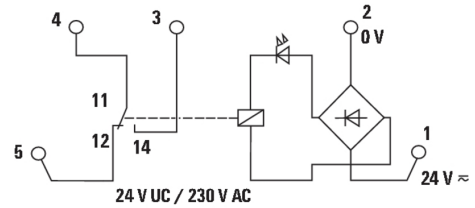
Drawings

Product image

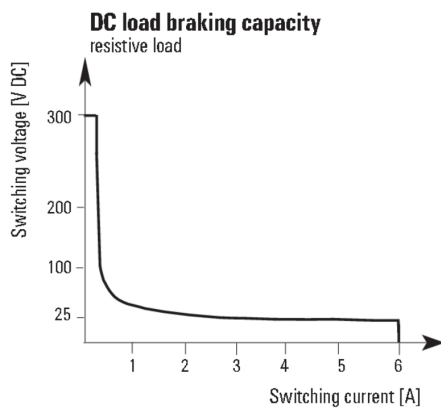


Similar to illustration

Wiring diagram

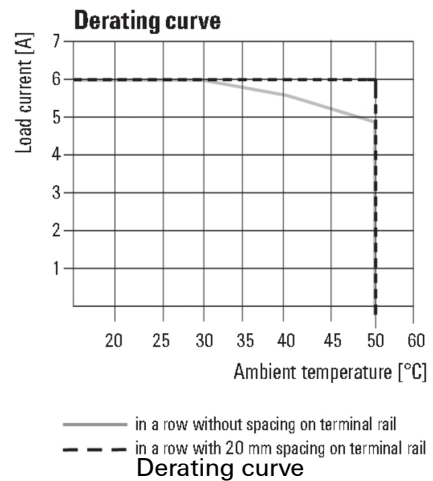


Graph



DC load limit curve

Graph



Dimensional drawing

