

**MCZ-SERIES  
MCZ R 110VDC**

**Weidmüller Interface GmbH & Co. KG**  
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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 mm<sup>2</sup>

**General ordering data**

|                  |   |
|------------------|---|
| Order No.        | <a href="#">8467470000</a>  |
| Part designation | MCZ R 110VDC  |
| Version          | MCZ-SERIES, Relays, No. of contacts: 1, CO contact, Rated control voltage: 110 V DC ±10 %, Tension clamp connection |
| GTIN (EAN)       | 4032248029532   |
| Qty.             | 10 pc(s).   |

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## Technical data

### Dimensions

|        |         |       |      |
|--------|---------|-------|------|
| Length | 91 mm   | Width | 6 mm |
| Height | 63.2 mm |       |      |

### Temperature

|                                   |                 |                     |                 |
|-----------------------------------|-----------------|---------------------|-----------------|
| Ambient temperature (operational) | -25 °C...+55 °C | Storage temperature | -40 °C...+60 °C |
|-----------------------------------|-----------------|---------------------|-----------------|

### Input

|  |                 |                       |                |
|--|-----------------|-----------------------|----------------|
| Rated voltage  | 300 V           | Rated control voltage | 110 V DC ±10 % |
| Pull-in (sparkover) / drop-out voltage DC coil approx. 68 V / approx. 19 V |                 | Rated current DC      | 2.85 mA        |
| Pull-in / drop-out current, DC coil  | 1,6 mA / 0,4 mA | Power rating          | 340 mW         |
| Status indicator   | Green LED       |                       |                |

### Output

|  |         |                         |               |
|--|---------|-------------------------|---------------|
| Continuous current                     | 6 A     | Max. switching current  | 6 A           |
| Max. switching frequency at rated load | 0.1 Hz  | Min. switching current  | 100 mA        |
| Switch-off delay                       | ≤ 10 ms | Switch-on delay         | 4.5 ms        |
| Switching voltage AC, max.             | 250 V   | making current          | 6 A           |
| max. switching capacity                | 1500 VA | min. switching capacity | 12 V / 100 mA |

### Contact data

|                  |                    |                         |                                       |
|------------------|--------------------|-------------------------|---------------------------------------|
| Contact design   | CO contact         | No. of contacts         | 1                                     |
| Contact material | AgSnO <sub>2</sub> | Mechanical service life | 20 x 10 <sup>6</sup> switching cycles |

### Rated data

|                             |   |                        |                     |
|-----------------------------|---|------------------------|---------------------|
| Conductor connection system | Tension clamp connection                  | DIN Rail compatibility | TS 35               |
| Humidity                    | 40°C / 93% rel. humidity, no condensation | Solid, max.            | 1.5 mm <sup>2</sup> |

### Insulation coordination (EN 50 178)

|  |          |                                      |                              |
|--|----------|--------------------------------------|------------------------------|
| Clearance and creepage distances for control/load side | ≥ 5.5 mm | Dielectric strength to mounting rail | 4 kV <sub>eff</sub> / 1 min. |
| Impulse withstand voltage                              | 6 kV     | Overvoltage category                 | III                          |
| Pollution severity                                     | 2        | Protection class                     | IP 20                        |
| Protective separation acc. to VDE 0106 part 101        | Yes      | Rated voltage                        | 300 V                        |

### Other technical data

|                             |               |                  |           |
|-----------------------------|---------------|------------------|-----------|
| Bridge rectifier            | Yes           | Free-wheel diode | No        |
| Reverse polarity protection | not available | Status indicator | Green LED |
| Version                     | Relay coupler |                  |           |

### Approvals

|                      |                     |
|----------------------|---------------------|
| Approvals institutes | CURUS; GOSTME25; CE |
|----------------------|---------------------|

**Datasheet****MCZ-SERIES  
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**Technical data****Classifications**

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 2.0   | EC001437    | ETIM 3.0   | EC001437    |
| eClass 5.1 | 27-37-16-01 | eClass 6.0 | 27-37-16-01 |

**Notes**

Note, technical data      End plate AP MCZ 1.5: 8389030000  
for cross-connectors and markers - refer to MCZ Series accessories