

**MCZ R 230VAC****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

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 mm<sup>2</sup>
- 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: 230 V AC $\pm 10\%$ , Continuous current: 6 A, Tension-clamp connection, Test button available: No
Order No.	<a href="#">8237710000</a>
Type	MCZ R 230VAC
GTIN (EAN)	4008190286187
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	25.2 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
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## Control side

Rated control voltage	230 V AC $\pm 10\%$	Rated current AC	9.5 mA
Power rating	2.1 VA	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	<11 ms	Switch-off delay	<35 ms
Contact type	1 CO contact (AgSnO)	Mechanical service life	10 x 10 <sup>6</sup> 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	$\geq 5.5$ mm
Dielectric strength for control side - load side	4 kV <sub>eff</sub> / 1 s	Dielectric strength to mounting rail	4 kV <sub>eff</sub> / 1 Min.
Impulse withstand voltage	4 kV (1.2/50 $\mu$ s)	Protection degree	IP20

## Further details of approvals / standards

Certificate No. (CSA)	154685-1198742	Certificate No. (cURus)	E141197
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## Connection data

Wire connection method	Tension-clamp connection	Stripping length, rated connection	8 mm
Clamping range, rated connection	1.5 mm <sup>2</sup>	Clamping range, min.	0.5 mm <sup>2</sup>
Clamping range, max.	1.5 mm <sup>2</sup>	Wire connection cross section AWG, min.	AWG 26
Wire connection cross section AWG, max.	AWG 16	Wire cross-section, solid, min.	0.5 mm <sup>2</sup>
Wire cross-section, solid, max.	1.5 mm <sup>2</sup>	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 <sup>2</sup>
Wire connection cross section, finely stranded, max.	1.5 mm <sup>2</sup>	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 <sup>2</sup>
Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max.	1.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	0.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	1.5 mm <sup>2</sup>	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.
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## 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 Conformity

[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

## MCZ R 230VAC

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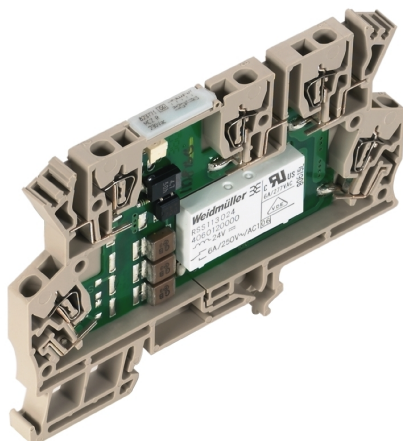
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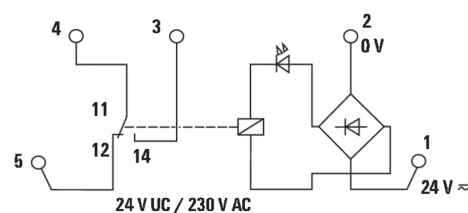
## Drawings

## Product image

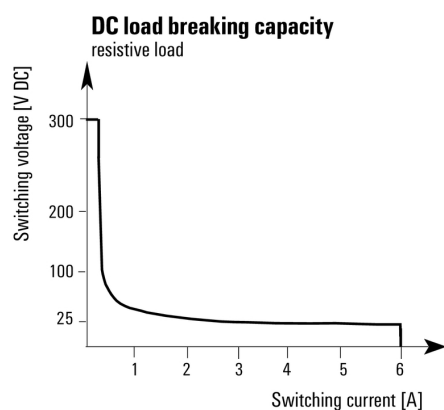


Similar to illustration

## Wiring diagram

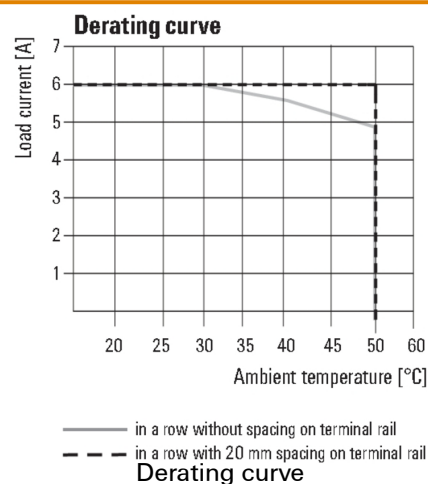


## Graph



DC load limit curve

## Graph



Derating curve

## Dimensional drawing

