

MCZ R 230VAC

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

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 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: 230 V AC $\pm 10\%$, Continuous current: 6 A, Tension-clamp connection
Order No.	8237710000
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
Net weight	25.2 g	Width	6.1 mm
Width (inches)	0.24 inch		

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
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Rated data UL

Certificate No. (cURus)	E141197
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Control side

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

Load side

AC switching capacity (resistive), max.	1500 VA	Continuous current	6 A
DC switching capacity (resistive), max.	144 W @ 24 V	Inrush 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	Rated switching voltage	250 V AC
Switch-off delay	$\leq$ 35 ms	Switch-on delay	$\leq$ 11 ms

Contact data

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

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

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Insulation coordination

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

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
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.
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Approvals

Approvals



ROHS	Conform
UL File Number Search	E141197

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Technical data

Downloads

Approval/Certificate/Document of Conformity	EU Konformitätserklärung / EU Declaration of Conformity
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD, Zuken E3.S
User Documentation	Beipackzettel / Package Insert – multilingual

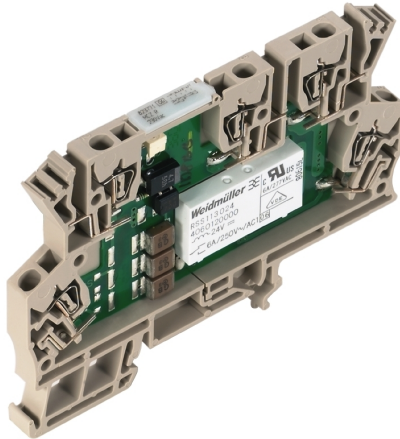
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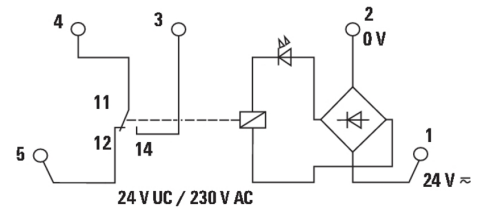
Drawings

Product image

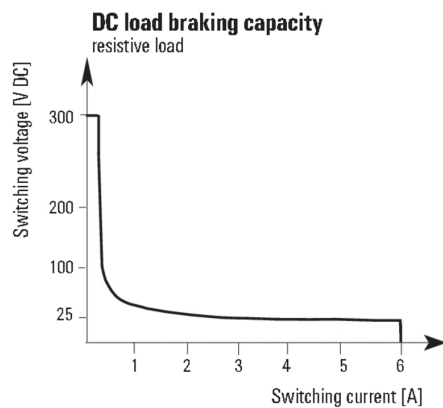


Similar to illustration

Wiring diagram

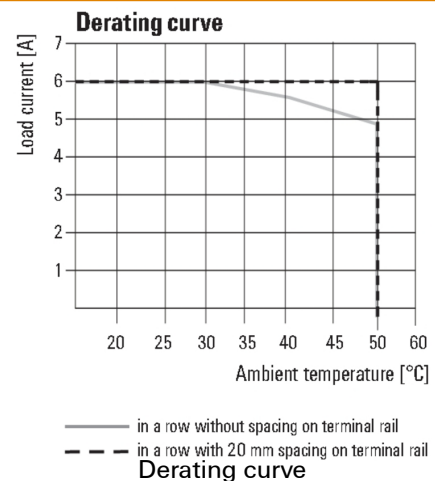


Graph



DC load limit curve

Graph



Dimensional drawing

