

MCZ O 230VAC

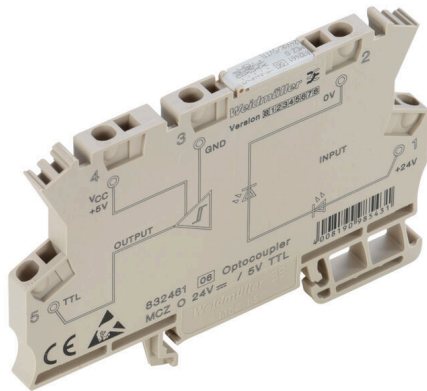
Weidmüller Interface GmbH & Co. KG

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, Solid-state relay, Rated control voltage: 230 V AC +5 % / -15 % , Rated switching voltage: 5...48 V DC, Continuous current: 20 mA, Tension-clamp connection
Order No.	8421380000
Type	MCZ O 230VAC
GTIN (EAN)	4032248006052
Qty.	10 items

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Technical data

Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E141197

Dimensions and weights

Depth	63.2 mm	Depth (inches)	2.4882 inch
Height	91 mm	Height (inches)	3.5827 inch
Width	6.1 mm	Width (inches)	0.2402 inch
Net weight	24 g		

Temperatures

Storage temperature	-40 °C...60 °C	Ambient temperature	-25 °C...40 °C
Operating temperature		Humidity	40 °C / 93 % rel. humidity, no condensation

Probability of failure

MTTF 2135 a

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1, 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol 119-47-1
SCIP	35d83707-6a3b-45b5-b9f8-6ba8184c863e

Rated data UL

Certificate No. (cURus) E141197

Control side

Rated control voltage	230 V AC +5 % / -15 %	Rated control voltage (control input)	230 V AC +5 % / -15 %
Nominal control current	10 mA AC ±20 %	Power rating	2.3 VA
Status indicator	Green LED	Protective circuit	Rectifier
Input frequency	AC: 5 Hz duty factor 1:2		

Load side

Rated switching voltage	5...48 V DC	Continuous current	0.02 A
Max. switching voltage, AC	250 V	Pulse load, max. current	<150 mA / 10 ms
Switch-on delay	≤ 30 ms	Switch-off delay	≤ 40 ms
Voltage drop at max. load	1.6 V	Leakage current	≤ 1 mA
Short-circuit-proof	No	Protective circuit, load side	Free-wheeling diode
Contact type	1 NO contact (Transistor)	max. switching frequency (AC control voltage)	5 Hz

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Technical data

General data

Mounting rail	TS 35		
Test button available	No		
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	≥ 5.5 mm
Dielectric strength for control side - load side	1 kVeff / 1 s	Dielectric strength to mounting rail	4 kVeff / 1 Min.
Impulse withstand voltage	6 kV (1.2/50 µs)	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 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

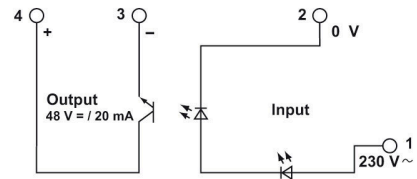
ETIM 8.0	EC001504	ETIM 9.0	EC001504
ETIM 10.0	EC001504	ECLASS 14.0	27-37-16-04
ECLASS 15.0	27-37-16-04		

Drawings

Wiring diagram



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Dimensional drawing

