



## MR82 Series



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### FEATURES

- 200mW nominal operating power
- 1500V FCC surge strength between open contacts, and between adjacent contacts

## SPECIFICATIONS

Contact Form		2 Form C
Contact Material		Silver alloy with gold alloy overlay
Contact Ratings	Maximum Switching Power	60 W, 125 VA
	Maximum Switching Voltage	220 Vdc, 250 Vac
	Maximum Switching Current	2 A
	Maximum Carrying Current	2 A
Minimum Contact Ratings		100 mVdc, 100 $\mu$ A
Initial Contact Resistance		50 mOhm typ. (Initial)
Nominal Operating Power		200 mW
Operate Time (Excluding bounce)		Approx. 5.5 ms
Release Time (Excluding bounce)		Approx. 2 ms without diode
Insulation Resistance		1000 MOhm at 500 Vdc
Breakdown Voltage	Between open contacts	500 Vac (for one minute)
	Between adjacent contacts	1000 Vac (for one minute)
	Between coil to contacts	1500 V surge (10 x 160 $\mu$ s <sup>*1</sup> )
Shock Resistance		294 m/s <sup>2</sup> (30 G) (misoperating) 980 m/s <sup>2</sup> (100 G) (destructive failure)
Vibration Resistance		10 to 55 Hz, double amplitude 1.5 mm (10 G) (misoperating) 10 to 55 Hz, double amplitude 5 mm (30 G) (destructive failure)
Ambient Temperature		-40 - +85°C
Coil Temperature Rise		Approx. 22 degrees at nominal coil voltage (200 mW)
Running Specifications	Nonload	10 x 10 <sup>6</sup> operations
	Load	50 Vdc, 0.1 A (resistive) 1 x 10 <sup>6</sup> operations at 85°C, 2 Hz 10 Vdc, 10 mA (resistive) 1 x 10 <sup>6</sup> operations at 85°C, 2 Hz
Weight		Approx. 5 g

\* 1 rise time : 10  $\mu$ s, fall time : 160  $\mu$ s

## PART NUMBER SYSTEM

MR82-5USR

① ②

① Relay Series

② Nominal Coil Voltage (See part numbers)

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## STANDARD PART NUMBERS

At 20°C

Part Number	Nominal Voltage (Vdc)	Coil Resistance (Ohm) ±10%	Must Operate Voltage* (Vdc)	Must Release Voltage* (Vdc)
MR82- 4.5USR	4.5	101	3.15	0.23
MR82- 5USR	5	125	3.5	0.25
MR82- 6USR	6	180	4.2	0.33
MR82- 9USR	9	405	6.3	0.45
MR82-12USR	12	720	8.4	0.68
MR82-24USR	24	2880	16.8	1.2

\* Test by pulse voltage

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World Products Inc.  
19654 8th St. East, Sonoma, CA 95476 USA  
Phone: (707) 996-5201 Fax: (707) 996-3380  
E-mail: emdsales@worldproducts.com

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