

# UMK 22-RELAY Relay Module

Data Sheet 1091A

January 2000

## Features

- Compact size, 22.5 mm wide
- 10 amp SPDT contact and 5 amp DPDT rating
- Fixed or pluggable relays
- Single Pole Double Throw (SPDT) and Double Pole Double Throw (DPDT) available
- DIN-rail mounted
- Coil status indication
- Built in damping diode circuit for DC
- Universal foot
- Separation of coil and contact wiring

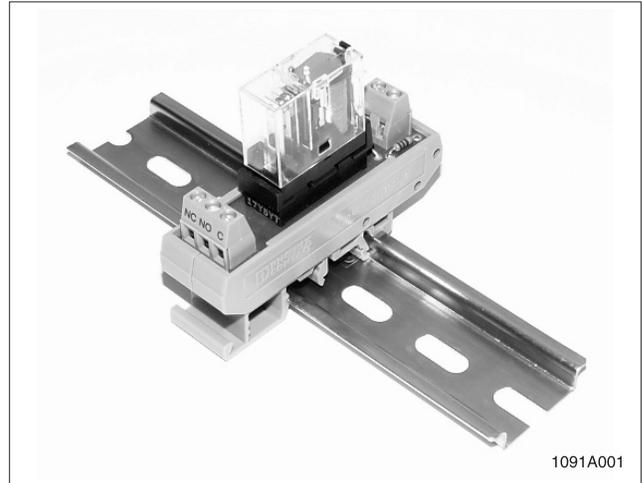


Figure 1. UMK 22-RELAY

## Description

The UMK RELAYS are industrial interface relays used in applications where low level control signals must switch high level loads. The DPDT (Double Pole Double Throw) version allows switching of two loads with a single control signal.

With 24 V dc resistive and inductive current ratings of 10 amps, the UMK 22 RELAY is ideal for general purpose relay applications.

The UMK 22 RELAYS are offered in 5 V, 12 V, 24 V, 48 V dc and 120, 230 V ac coil ratings.

Table 1. UMK 22-RELAY Specifications

General Specifications	
<b>Technical Data</b>	
Contact ratings	
Single pole .....	10 A @ 30 V dc 10 A @ 250 V ac
Double pole .....	5 A (per contact) @ 250 V ac
<b>Input Coil Voltages</b>	
.....	5 V dc      48 V dc
.....	12 V ac     120 V ac
.....	24 V ac/dc 240 V ac
<b>General</b>	
Maximum wire size .....	.30 - 14 AWG
Operating temperature .....	-20°C to 65°C
Electrical life .....	5 x 10 <sup>6</sup> operations @ maximum rated load
Isolation (coil contact) .....	5 kV
<b>Dimensions</b>	
Height .....	1.97 in. (50 mm)
Width .....	0.87 in. (22 mm)
Depth .....	3.03 in. (77 mm)

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# UMK 22-REL RELAY Module

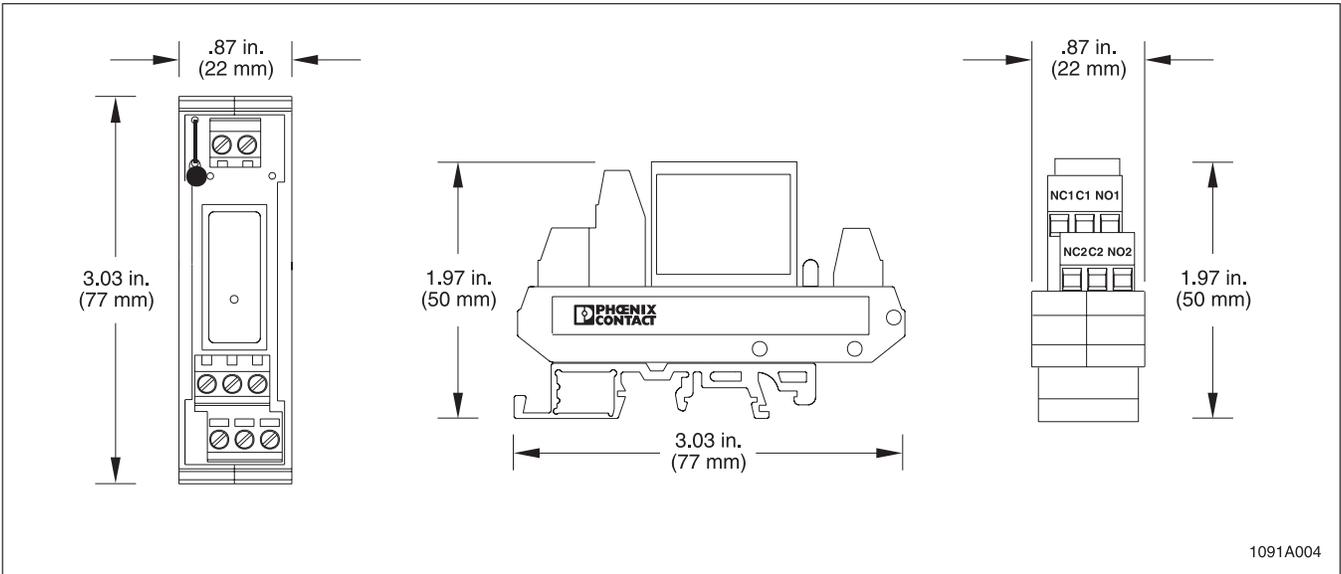


Figure 2. UMK 22-RELAY Dimensions

## Ordering Information

### Fixed Relays SPDT

UMK 22-REL 5/21	55 42 23 1
UMK 22-REL 12/21	55 42 31 4
UMK 22-REL 24/21	55 42 71 2
UMK 22-REL 48/21	55 42 72 5
UMK 22-REL 120/21	55 43 20 3
UMK 22-REL 240/21	55 43 22 4

### Fixed Relays DPDT

UMK 22-REL 5/21-21	55 42 73 8
UMK 22-REL 12/21-21	55 42 74 1
UMK 22-REL 24/21-21	55 42 75 4
UMK 22-REL 24VAC/21-21	55 20 56 9
UMK 22-REL 48/21-21	55 42 76 7
UMK 22-REL 120/21-21	55 43 21 6
UMK 22-REL 240/21-21	55 43 23 2

### Pluggable Relays SPDT

UMK 22-REL 24/21-ST	55 20 69 5
UMK 22-REL 120/21-ST	55 20 70 5
UMK 22-REL 120/21-ST-TR*	55 24 23 5

### Pluggable Relays DPDT

UMK 22-REL 24/21-21-ST	55 20 73 4
UMK 22-REL 120/21-21-ST	55 20 72 1

\* Base incorporates power resistor to dissipate up to 10 mA of leakage current found in most triac circuits.

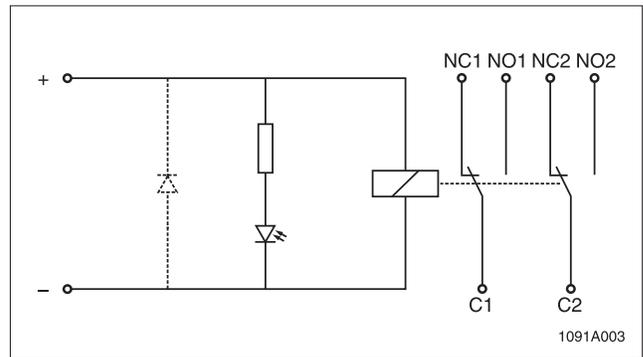


Figure 3. UMK 22-RELAY Block Diagram

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