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

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.

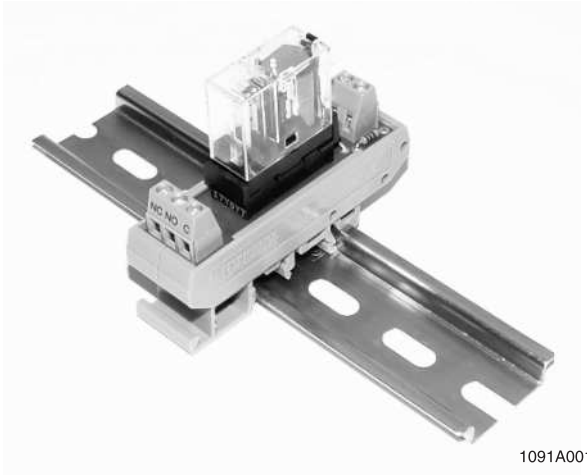


Figure 1. UMK 22-RELAY

Table 1. UMK 22-RELAY Specifications

General Specifications

Technical Data

Contact ratings

Single pole	10 A @ 30 V dc 10 A @ 250 V ac
Double pole	5 A (per contact) @ 250 V ac

Input Coil Voltages

	5 V dc	48 V dc
	12 V ac	120 V ac
	24 V ac/dc	240 V ac

General

Maximum wire size	30 - 14 AWG
Operating temperature	–20°C to 65°C
Electrical life	5 x 10^6 operations @ maximum rated load
Isolation (coil contact)	5 kV

Dimensions

Height	1.97 in. (50 mm)
Width	0.87 in. (22 mm)
Depth	3.03 in. (77 mm)

1091A002

Phoenix Contact Inc. • P.O. Box 4100 • Harrisburg, PA 17111 • Phone: (717) 944-1300 • Fax: (717) 944-1625

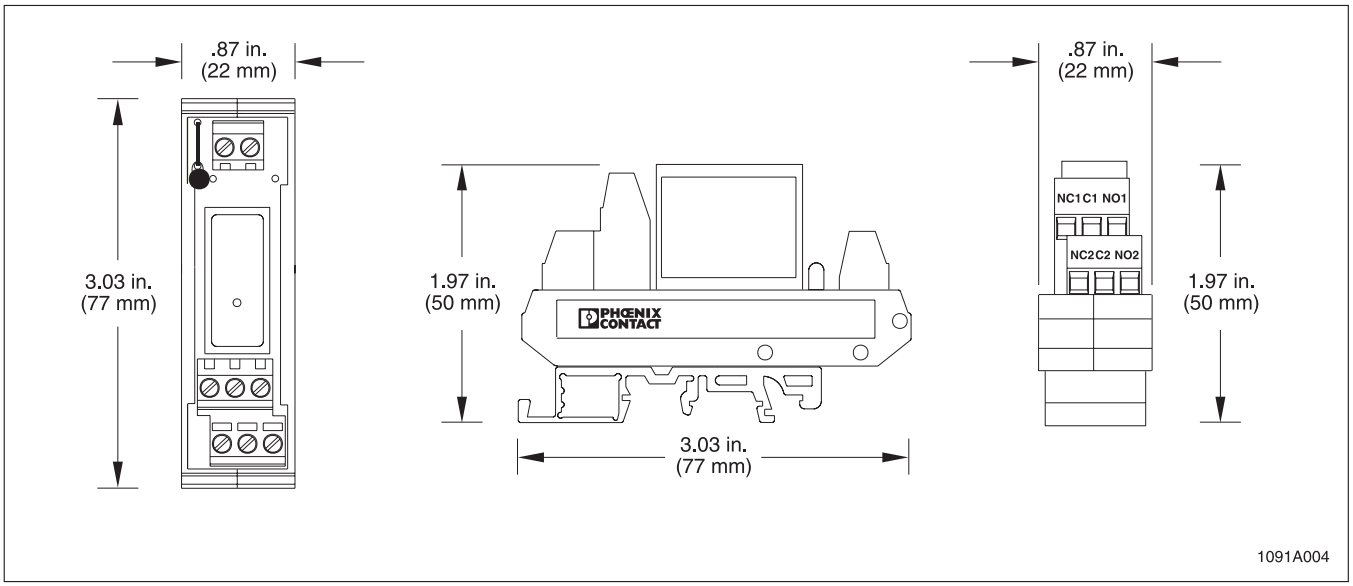


Figure 2. UMK 22-RELAY Dimensions

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.

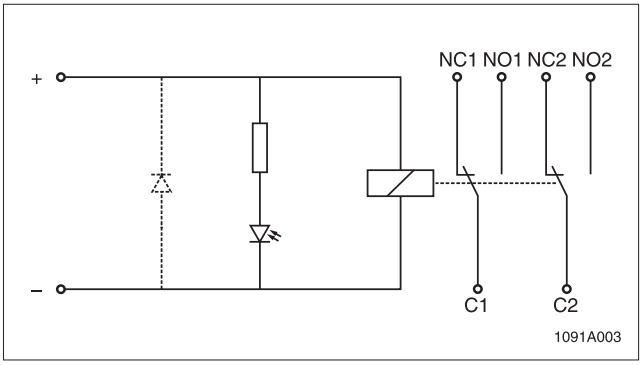


Figure 3. UMK 22-RELAY Block Diagram

Headquarters, U.S.

Phoenix Contact Inc.
P.O. Box 4100
Harrisburg, PA 17111-0100
Technical Support and Information: (800) 322-3225
Fax: (717) 948-3475
Fax-On-Demand: (800) 944-9901
Email: info@phoenixcon.com
Web Site: http://www.phoenixcontact.com

Headquarters, Canada

Phoenix Contact Ltd.
235 Watline Avenue
Mississauga, Ontario L4Z 1P3
Phone: (905) 890-2820
Fax: (905) 890-0180

The information given herein is based on data believed to be reliable, but Phoenix Contact Inc. makes no warranties expressed or implied as to the accuracy and assumes no liability arising out of its use by others. This publication is not to be taken as license to operate under, or recommendation to infringe, any patent.