

UMK 33 Relay Module

4PDT, 24Vdc or 120Vac Coil

Data Sheet 1802B

November 2003

Description

The UMK RELAYs are industrial interface relays used in applications where low level control signals must switch high level loads. The 4PDT (Four Pole Double Throw) version allows switching of four loads with a single control signal.

With a current rating of 5 amps, the UMK 33 RELAY is ideal for general purpose relay applications.

Features

- Compact size, 33.7 mm wide
- 5 amp 4PDT rating
- 24Vdc or 120Vac coil
- Pluggable relay
- · DIN-rail mounted
- · Coil status indication
- Built in damping diode circuit (DC coil)
- · Universal foot
- · Separation of coil and contact wiring
- · Arc barriers between adjacent poles

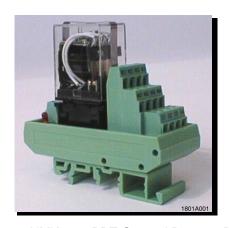


Figure 1. UMK 33, 4PDT General Purpose Relay

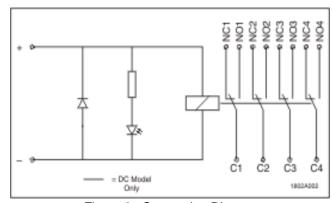


Figure 2. Connection Diagram

Table 1. Ordering Information

Description	Part Number	Type Description
24Vdc coil, 4PDT	5604028	UMK 33-REL 24/4x21-ST-W/RLY
120Vac coil, 4PDT	5604257	UMK 33-REL 120/4x21-ST-W/RLY

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Table 2. Contact Specifications

Contact material	Silver cadmium oxide, gold flashed
Contact ratings	4PDT, 5 amps @ 120/240 VAC, 30Vdc
	1/6 hp 120/240VAC, C300 pilot duty

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Table 3. +24Vdc Coil Specifications

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Nominal input voltage	+24Vdc
Nominal Coil resistance @ 25°C	650Ω
Pull in voltage	= 18Vdc</th
Dropout voltage	
Maximun voltage	110%
Coil Power	0.9 to 1.1 Watts
Insulation System	Class "B" (130°C per UL 1446
Maximum Coil Dissipation	
Duty	Continuous

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Table 4. 120Vac Coil Specifications

Nominal input voltage
Nominal Coil resistance @ 25°C
Pull in voltage
Dropout voltage
Maximun voltage110%
Coil Power
Insulation System
Maximum Coil Dissipation
Duty

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Table 5. General Specifications

Dielectric Strengthl	
Coil to frame	1500 Vrms
Across open contacts	1000 Vrms
Contacts to frame	1500 Vrms
Insultaion resistance	100MΩ @500 Vdc
Temperature	
Operating	40°C to +70°C
Storage	40°C to 105°C
Life Expectancy	
Electrical	200,000 operations, 5 amp resistive load
Mechanical	10,000,000 @ no load

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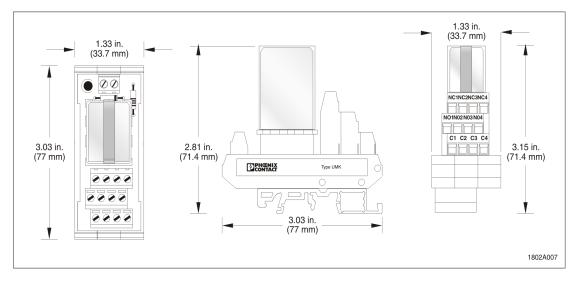


Figure 3. UMK 33 Relay Dimensions

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