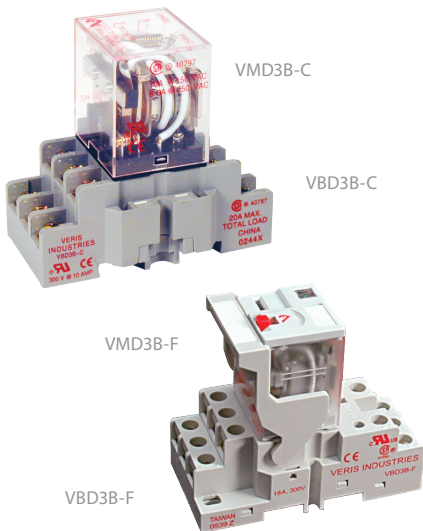


# VMD3B & VMD3B-C SERIES

Socket Relays with a Wide Range of Features and Coil Voltages



The VMD3B Series are 3PDT blade-style relays for socket/DIN mounting. The standard VMD3B-C model is economical and reliable. The full-featured VMD3B-F includes an LED and a flag indicator for convenient status viewing and a push-button test feature for easy troubleshooting. The finger-safe sockets reduce risk, and the hold-down clip keeps the device secure. Enhanced safety and dependability.

## SPECIFICATIONS

|                                 |                                                                                          |
|---------------------------------|------------------------------------------------------------------------------------------|
| Operating Temp. Range           | -40 to 55 °C (-40 to 131 °F)                                                             |
| Coil Operating Range            | 85% to 110% of rated voltage                                                             |
| Coil Drop-out Voltage Threshold | 15% of rated voltage                                                                     |
| Expected Relay Life             | Electrical (@ rated current) 100,000 cycles;<br>Mechanical (unpowered) 10,000,000 cycles |
| Operating Time                  | 20 msec typical                                                                          |
| Dielectric Strength             | 1500 Vac RMS                                                                             |

### WARRANTY

|                  |         |
|------------------|---------|
| Limited Warranty | 5 years |
|------------------|---------|

### AGENCY APPROVALS



## Color-coded push buttons

Allows manual operation of relay.  
AC coils red, DC coils blue.  
(-F Series only)

## Override lever

When activated, locks push button and contacts in the powered position (-F Series only)

## Flag indicator

Shows relay status in manual or powered condition (-F Series only)

## 2-way mounting

Side or DIN rail mounting system...retrofits existing panel mounting and 35 mm DIN rail

## I.D. tag

I.D. tag/write-on plastic label... used for identification of relays in multi-relay circuits (-F Series only)

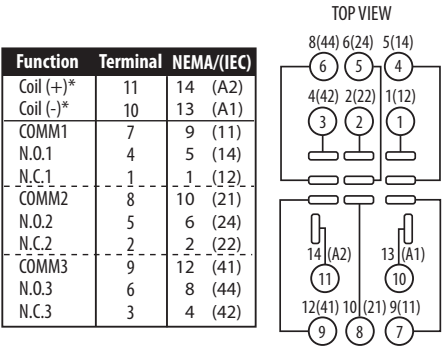
## LED status lamp

Shows coil "ON" or "OFF" status (-F Series only)

| TYPICAL COIL PERFORMANCE |                  |
|--------------------------|------------------|
| Power Consumption        |                  |
| AC Coils                 | 1.2 VA           |
| DC Coils                 | 1.4 W            |
| CONTACT RATINGS          |                  |
| Resistive                | 15 A @ 120 Vac   |
|                          | 12 A @ 277 Vac   |
|                          | 12 A @ 28 Vdc    |
| Motor                    | 1/2 HP @ 120 Vac |
|                          | 3/4 HP @ 250 Vac |
| Pilot Duty               | B300             |

VBD3B SOCKET

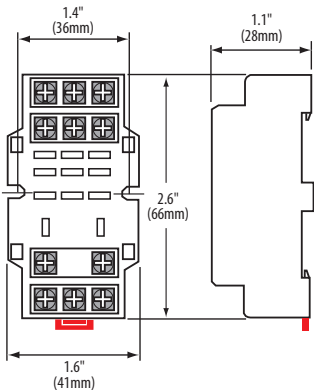
Wiring Diagram



\*Observe polarity for relays with DC coil voltages only

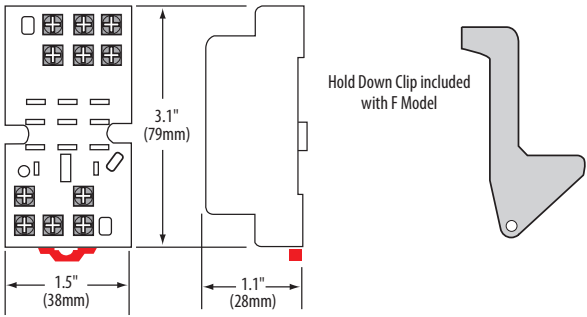
VBD3B-C SOCKET

Wiring Diagram



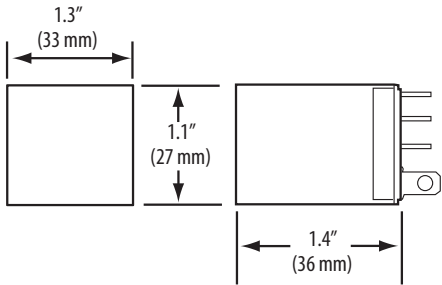
VBD3B-F SOCKET

Wiring Diagram



VMD3B RELAY

Wiring Diagram



RELAY ORDERING INFORMATION

| MODEL       | RELAY TYPE | AMPERAGE RANGE | COIL VOLTAGE | MIN. SWITCHING CURRENT | FULL FEATURED | UL | CE |
|-------------|------------|----------------|--------------|------------------------|---------------|----|----|
| VMD3B-C24D  | 3PDT       | 10 A           | 24 Vdc       | 100 mA@5 Vdc           |               | •  | •  |
| VMD3B-C24A  |            |                | 24 Vac       |                        |               | •  | •  |
| VMD3B-C120A |            |                | 120 Vdc      |                        |               | •  | •  |
| VMD3B-F24D  |            | 15 A           | 24 Vdc       |                        | •             | •  | •  |
| VMD3B-F24A  |            |                | 24 Vac       |                        | •             | •  | •  |
| VMD3B-F120A |            |                | 120 Vac      |                        | •             | •  | •  |

SOCKET ORDERING INFORMATION

| MODEL   | AMPERAGE RATING | VOLTAGE RATING | FINGER SAFE | HOLD DOWN CLIP | UL | CE |
|---------|-----------------|----------------|-------------|----------------|----|----|
| VBD3B-F | 16 A            | 300 V          | •           | •              | •  | •  |

Note: When relays and sockets are used together, the amperage rating is the lesser of the two ratings.

RELAY & SOCKET KIT ORDERING INFORMATION

| KIT MODEL        | RELAY INCLUDED | SOCKET INCLUDED | RELAY TYPE | AMPERAGE RANGE | COIL VOLTAGE | MIN. SWITCHING CURRENT | UL | CE |
|------------------|----------------|-----------------|------------|----------------|--------------|------------------------|----|----|
| FKIT-VMD3B-C24A  | VMD3B-C24A     | VBD3B-F         | 3PDT       | 10 A           | 24 Vac       | 100 mA@5 Vdc           | •  | •  |
| FKIT-VMD3B-C24D  | VMD3B-C24D     | VBD3B-F         | 3PDT       |                | 24 Vdc       | 100 mA@5 Vdc           | •  | •  |
| FKIT-VMD3B-C120A | VMD3B-C120A    | VBD3B-F         | 3PDT       |                | 120 Vac      | 100 mA@5 Vdc           | •  | •  |
| FKIT-VMD3B-F24A  | VMD3B-F24A     | VBD3B-F         | 3PDT       | 15 A           | 24 Vac       | 100 mA@5 Vdc           | •  | •  |
| FKIT-VMD3B-F24D  | VMD3B-F24D     | VBD3B-F         | 3PDT       |                | 24 Vdc       | 100 mA@5 Vdc           | •  | •  |
| FKIT-VMD3B-F120A | VMD3B-F120A    | VBD3B-F         | 3PDT       |                | 120 Vac      | 100 mA@5 Vdc           | •  | •  |
| CKIT-VMD3B-C24D  | VMD3B-C24D     | VBD3B-C         | 3PDT       | 10 A           | 24 Vdc       | 100 mA@5 Vdc           | •  | •  |
| CKIT-VMD3B-C24A  | VMD3B-C24A     | VBD3B-C         | 3PDT       |                | 24 Vac       | 100 mA@5 Vdc           | •  | •  |
| CKIT-VMD3B-C120A | VMD3B-C120A    | VBD3B-C         | 3PDT       |                | 120 Vac      | 100 mA@5 Vdc           | •  | •  |