

VMD1B-C & VMD1B-F SERIES

Socket Relays in a Wide Range of Coil Voltages



The Veris VMD1B-C Series are SPDT blade-style relays for socket/DIN mounting. The DIN-rail compatible VBD1B-C sockets feature finger-safe terminals in a slim, attractive design.

The Veris VMD1B-F Series are full-featured SPDT blade style relays for socket/DIN mounting. The VMD1B-F Series are equipped with an LED for coil proof, a flag for contact proof, an override lever, and a push-to-test button for momentary contact control. The VMD1B-F allows for instant and conclusive troubleshooting. Never wonder if the relay, control system, or wiring is the cause of a problem. The DIN-rail-compatible VBD1B-F sockets feature a slim design with finger-safe terminals and a removable hold-down clip. Never struggle with wire clips again.

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; 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 pushbutton

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

Override lever

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

LED status lamp

Shows coil "ON" or "OFF" status
(-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

Flexible ordering

Relays and sockets sold individually or in kits

TYPICAL COIL PERFORMANCE

Power Consumption

| | |
|----------|--------|
| AC Coils | 0.9 VA |
|----------|--------|

| | |
|----------|--------|
| DC Coils | 0.7 VA |
|----------|--------|

CONTACT RATINGS

Standard (F & C Series)

| | |
|-----------|----------------|
| Resistive | 15 A @ 120 Vac |
|-----------|----------------|

| | |
|--|----------------|
| | 15 A @ 277 Vac |
|--|----------------|

| | |
|--|---------------|
| | 15 A @ 28 Vdc |
|--|---------------|

| | |
|-------|---------------|
| Motor | 1/3 @ 120 Vac |
|-------|---------------|

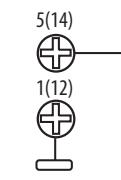
| | |
|--|---------------|
| | 3/4 @ 277 Vac |
|--|---------------|

| | |
|------------|------|
| Pilot Duty | B300 |
|------------|------|

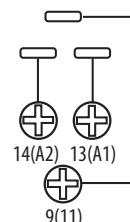
VBD1B SOCKET

Wiring Diagram

TOP VIEW



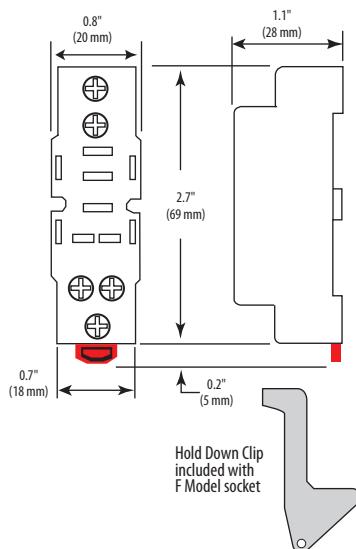
| Function | NEMA (IEC) Terminal |
|-----------|---------------------|
| Coil (+)* | 14 (A2) |
| Coil (-)* | 13 (A1) |
| COMM | 9 (11) |
| N.O. | 5 (14) |
| N.C. | 1 (12) |



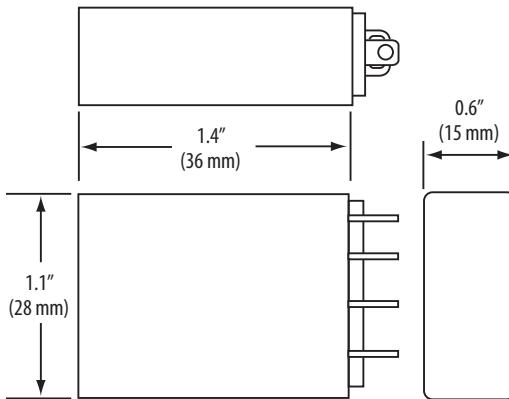
* NOTE: Observe polarity for relays with DC coil voltages only.

VMD1B SOCKET

Dimensional Drawing

**VMD1B RELAYS**

Dimensional Drawing

**RELAY ORDERING INFORMATION**

| MODEL | RELAY TYPE | AMPERAGE RATING | COIL VOLTAGE | MIN. SWITCHING CURRENT | FULL FEATURED | UL | CE |
|-------------|------------|-----------------|--------------|------------------------|---------------|----|----|
| VMD1B-C12D | SPDT | 15 A | 12 Vdc | 100 mA@5 Vdc | • | • | • |
| VMD1B-C24D | | 15 A | 24 Vdc | 100 mA@5 Vdc | | • | • |
| VMD1B-C24A | | 15 A | 24 Vac | 100 mA@5 Vdc | | • | • |
| VMD1B-C120A | | 15 A | 120 Vac | 100 mA@5 Vdc | | • | • |
| VMD1B-F12D | | 15 A | 12 Vdc | 100 mA@5 Vdc | | • | • |
| VMD1B-F24D | | 15 A | 24 Vdc | 100 mA@5 Vdc | | • | • |
| VMD1B-F24A | | 15 A | 24 Vac | 100 mA@5 Vdc | | • | • |
| VMD1B-F120A | | 15 A | 120 Vac | 100 mA@5 Vdc | | • | • |

SOCKET ORDERING INFORMATION

| MODEL | AMPERAGE RATING | VOLTAGE RATING | FINGER SAFE | HOLD DOWN CLIP | UL | CE |
|---------|-----------------|----------------|-------------|----------------|----|----|
| VBD1B-C | 15 A | 300 V | • | • | • | • |
| VBD1B-F | | | • | • | • | • |

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-VMD1B-C12D | VMD1B-C12D | VBD1B-F | 1PDT | 15 A | 12 Vdc | 100 mA@5 Vdc | • | • |
| FKIT-VMD1B-C24D | VMD1B-C24D | VBD1B-F | 1PDT | | 24 Vdc | 100 mA@5 Vdc | • | • |
| FKIT-VMD1B-C24A | VMD1B-C24A | VBD1B-F | 1PDT | | 24 Vac | 100 mA@5 Vdc | • | • |
| FKIT-VMD1B-C120A | VMD1B-C120A | VBD1B-F | 1PDT | | 120 Vac | 100 mA@5 Vdc | • | • |
| FKIT-VMD1B-F12D | VMD1B-F12D | VBD1B-F | 1PDT | | 12 Vdc | 100 mA@5 Vdc | • | • |
| FKIT-VMD1B-F24A | VMD1B-F24A | VBD1B-F | 1PDT | | 24 Vac | 100 mA@5 Vdc | • | • |
| FKIT-VMD1B-F24D | VMD1B-F24D | VBD1B-F | 1PDT | | 24 Vdc | 100 mA@5 Vdc | • | • |
| FKIT-VMD1B-F120A | VMD1B-F120A | VBD1B-F | 1PDT | | 120 Vac | 100 mA@5 Vdc | • | • |
| FKIT-VMD1B-F240A | VMD1B-F240A | VBD1B-F | 1PDT | | 240 Vac | 100 mA@5 Vdc | • | • |
| CKIT-VMD1B-C12D | VMD1B-C12D | VBD1B-C | 1PDT | | 12 Vdc | 100 mA@5 Vdc | • | • |
| CKIT-VMD1B-C24D | VMD1B-C24D | VBD1B-C | 1PDT | | 24 Vdc | 100 mA@5 Vdc | • | • |
| CKIT-VMD1B-C24A | VMD1B-C24A | VBD1B-C | 1PDT | | 24 Vac | 100 mA@5 Vdc | • | • |
| CKIT-VMD1B-C120A | VMD1B-C120A | VBD1B-C | 1PDT | | 120 Vac | 100 mA@5 Vdc | • | • |