

VMA series

Single Phase, Plug-in Undervoltage Relay

- Automatic reset minimizes equipment downtime.
- Fixed pickup point prevents low voltage start-up.
- Adjustable dropout point protects against undervoltage operation.
- Locking potentiometer maintains selected set point.
- Delayed dropout prevents nuisance tripping.
- Plug-in mounting for easier installation.
- Built-in protection against polarity reversal.
- LED indicates normal voltage condition.

File E60363

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Function

Single phase undervoltage relay.

Sensing Specifications

Voltage Set-Point Adjustment: Locking potentiometer with calibrated dial.

Response Time: Standard 0.5 sec. delay on dropout.

Accuracy: Repeat Accuracy: $\pm 0.5\%$ under fixed conditions.

Overall Accuracy: $\pm 1\%$.

Temperature Coefficient: $\pm 0.02\%/^{\circ}\text{C}$ (Max.).

Output Data

Arrangement: 2 Form C (DPDT).

Rating: 7A @ 250VAC; 1/6 HP @ 250VAC; 300VA @ 120/240VAC;
3A @ 30VDC.

Expected Mechanical Life: 10,000,000 operations.

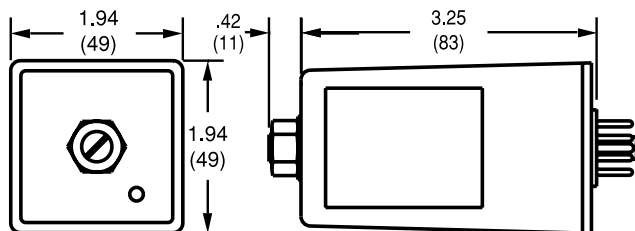
Expected Electrical Life: 100,000 operations at rated resistive load.

Initial Dielectric Strength

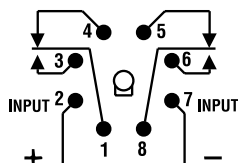
Between Terminals and Case: 1,480V.

Between Relay Contacts and Active Circuitry: 1,480V.

Outline Dimensions



Wiring Diagram (Bottom View)



Input Data

Voltage: See ordering information.

Power Requirement: 4W, max.

Transient Protection:

| | |
|--------|------------|
| 24VAC | 1.5 joules |
| 24VDC | 1.5 joules |
| 48VDC | 10 joules |
| 120VAC | 10 joules |
| 125VDC | 10 joules |
| 240VDC | 20 joules |

Reverse Polarity Protection: On DC models.

Duty Cycle: Continuous.

Environmental Data

Temperature Range: Storage: -30°C to $+60^{\circ}\text{C}$.

Operating: -10°C to $+55^{\circ}\text{C}$.

Mechanical Data

Mounting: Octal plug. Fits 27E122 or 27E891 (snap-on) screw terminal socket. Order socket separately.

Enclosure: Nylon cover protects against particles.

Status Indication: LED indicates normal voltage condition.

Weight: 6 oz. (168g) approximately.

Ordering Information

| Part Number | Nominal Voltage | Pick-Up (V) | Drop-Out Range (V) |
|-------------|-----------------|-------------|--------------------|
| VMAXEA | 24VAC | 21 | 15 to 20 |
| VMAXAA | 120VAC | 104 | 78 to 99 |
| VMAXBA | 240VAC | 209 | 156 to 199 |
| VMAXOA | 24VDC | 21 | 15 to 20 |
| VMAXEA | 48VDC | 42 | 31 to 40 |
| VMAXEA | 125VDC | 109 | 81 to 103 |

Authorized distributors are likely to stock the following:

None at present.