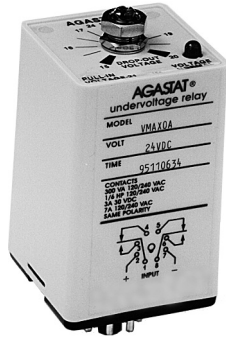


## VMA series, Single Phase, Plug-in, Undervoltage Relay



### Product Facts

- 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

### 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

### 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 —  $-30^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$

Operating —  $-10^{\circ}\text{C}$  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.

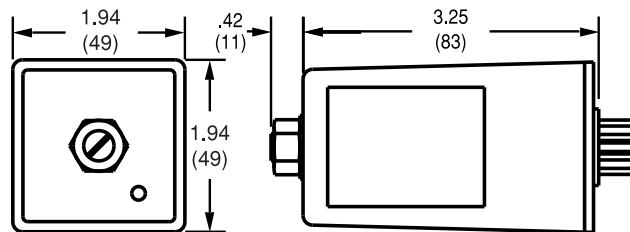
**Weight** — 6 oz. (168g) approximately.

### Ordering Information

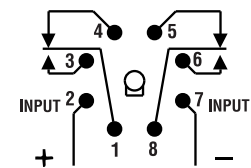
Part Number	Nominal Voltage	Pick-Up (V)	Drop-Out Range (V)
VMAXEA	24VAC	21	15 to 20
VMAXAA	120VAC	104	78 to 99
VMAXBA	240VAC	209	156 to 199
VMAXOA	24VDC	21	15 to 20
VMAXNA	48VDC	42	31 to 40
VMAXPA	125VDC	109	81 to 103

Authorized distributors are likely to stock the following:

None at present.



Outline Dimensions



Wiring Diagram (Bottom View)

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.

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