

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.).

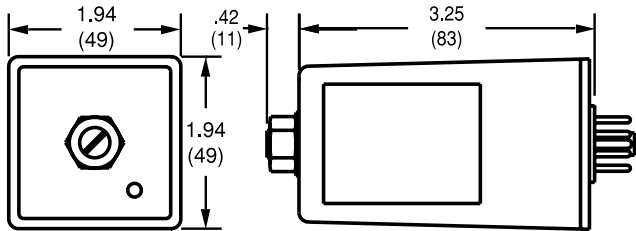
Output Data

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.

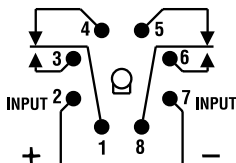
Initial Dielectric Strength

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°C.
Operating: -10°C to +55°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.