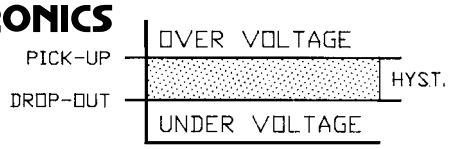
# UOA SERIES

DIVERSIFIED ELECTRONICS

## Single Phase Under Voltage Monitor/Relays

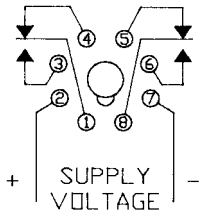
**Style A**

Style A Only



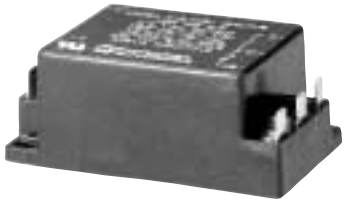

WIRING DIAGRAMS
(SHOWN IN DE-ENERGIZED STATE)

PLUG-IN MODEL
Style A

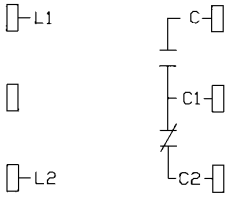



(DC POLARITY SHOWN)

RB-08 or PF083A



SURFACE MOUNTED
Style N




### *OPERATION*

The UOA Series offers protection to single phase equipment that is required to operate above a certain voltage minimum.

With operating voltage applied above the preset PICK-UP voltage, the internal relay will energize. When the voltage falls below the preset DROP-OUT voltage for a period longer than the release delay, the output relay will de-energize. When line conditions return above the preset PICK-UP voltage, the UOA Series automatically resets and the internal relay energizes.

The HYSTERESIS in each unit provides a differential between the PICK-UP and DROP-OUT trip points.

### *SPECIFICATIONS*

**RESPONSE TIMES**

Operate: 50 mSec. (Approximately)
(500 mSec. on 12 VDC units)
Release: 0.5 Seconds (Approximately)

**OUTPUT RATING:** Style A – DPDT, 5A @ 240 VAC, Resistive; 211 VA @ 240, Inductive.
Style N – SPDT, 10A @ 240 VAC, Resistive; 180 VA, Inductive.

**TEMPERATURES**

Operate: 32° to +131°F (0° to +55°C)
Storage: -49° to 185°F (-45° to +85°C)

**POWER REQUIRED**

Models Up To 110 VDC: 3 Watts, Maximum
Models Up To 300 VAC: 5 VA, Maximum

| MODEL NUMBER | DROP-OUT VOLTAGE | PICK-UP VOLTAGE | HYSTERESIS VOLTAGE |
|---|---|---|---|
| **UOA-24-A*A** | 19-27 VAC | 21-29 VAC | 2 |
| **UOA-120-A*A** | 97-130 VAC | 102-135 VAC | 5 |
| **UOA-208-A*A** | 177-222 VAC | 185-230 VAC | 8 |
| **UOA-240-A*A** | 205-250 VAC | 215-260 VAC | 10 |
| **UOA-12-D*A** | 9-14 VDC | 10-15 VDC | 1 |
| **UOA-24-D*A** | 19-27 VDC | 21-29 VDC | 2 |
| **UOA-48-D*A** | 38-53 VDC | 40-55 VDC | 2 |
| **UOA-110-D*A** | 92-125 VDC | 97-130 VDC | 5 |
| **UOA-220-D*A** | 185-230 VDC | 194-239 VDC | 9 |
| **UOA-240-D*A** | 205-250 VDC | 215-260 VDC | 10 |
| **UOA-120-AFN** | 100 VAC | 105 VAC | 5 |
| **UOA-208-AFN** | 180 VAC | 188 VAC | 8 |
| **UOA-220-AFN** | 180 VAC | 187 VAC | 7 |
| **UOA-230-AFN** | 190 VAC | 198 VAC | 8 |
| **UOA-240-AFN** | 202 VAC | 210 VAC | 8 |

*ADJUSTMENTS F = Fixed, K = Knob, L = Locknut