

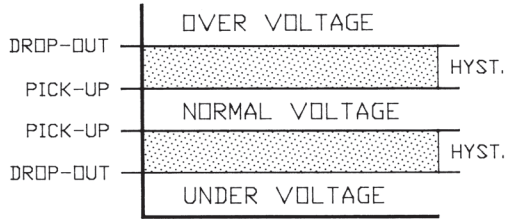
The **VBA Series** offers protection to **SINGLE PHASE** equipment that is required to operate between two voltage limits. Supply voltage is monitored for a preselected **UNDER** and **OVER** voltage limit.

OPERATION

With normal operating voltage applied, the internal relay will energize (PICK-UP). When the voltage falls outside the preset Over/Under trip points for longer than the release delay, the relay will de-energize (DROP-OUT). When line conditions return to normal, the VBA Series automatically resets and the internal relay energizes.

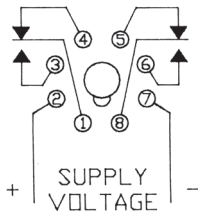
The HYSTERESIS in each unit on the Under and Over limits provides a differential between the PICK-UP and DROP-OUT trip points.

WIRING



WIRING DIAGRAMS (SHOWN IN DE-ENERGIZED STATE)

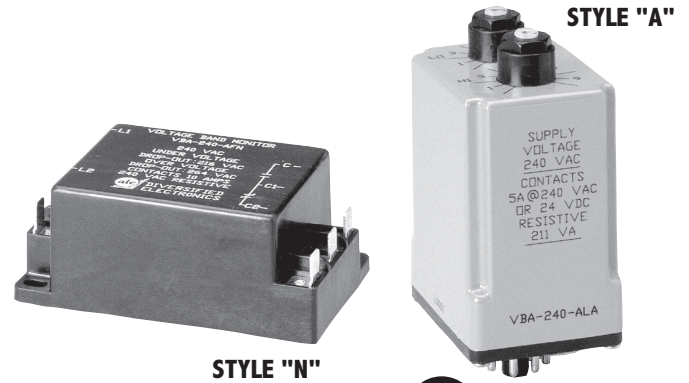
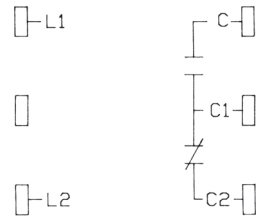
PLUG-IN MODEL
Style A



(DC POLARITY SHOWN)

RB-08 or PF083A

SURFACE MOUNTED
Style N



Single Phase Voltage Band Monitor

SPECIFICATIONS

POWER REQUIRED Models Up To 110 VDC: 3 Watts, Max.
Models Up To 300 VAC: 5 VA, Max.

| | | |
|----------------------|---------|--|
| OUTPUT RATING | Style A | DPDT, 5A @ 240 VAC, Resistive; 211 VA @ 240 VAC |
| | Style N | SPDT, 10A @ 240 VAC, Resistive; 180 VA, @ 120 VAC |

| | | |
|-----------------------|---------|---|
| RESPONSE TIMES | Operate | 50 mSEC (approx.) (500 mSEC on 12 VDC units) |
| | Release | 0.5 SEC (approx.) |

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

WEIGHT 5 oz.

| MODEL VOLTAGE | NOMINAL VOLTAGE | PICK-UP UNDER VOLTAGE | PICK-UP OVER VOLTAGE | HYSTERESIS VOLTAGE |
|---------------|-----------------|-----------------------|----------------------|--------------------|
| VBA-24-A*A | 24 VAC | 19-24 | 24-29 | 2 |
| VBA-120-A*A | 120 VAC | 90-120 | 120-150 | 5 |
| VBA-208-A*A | 208 VAC | 185-208 | 208-240 | 8 |
| VBA-240-A*A | 240 VAC | 200-240 | 240-270 | 10 |
| VBA-12-D*A | 12 VDC | 10-12 | 12-15 | 1 |
| VBA-24-D*A | 24 VDC | 19-24 | 24-29 | 1 |
| VBA-28-D*A | 28 VDC | 22-28 | 28-34 | 1 |
| VBA-48-D*A | 48 VDC | 38-48 | 48-58 | 2 |
| VBA-110-D*A | 110 VDC | 85-110 | 110-135 | 5 |
| VBA-24-AFN | 24 VAC | 21.6 | 26.4 | 0 |
| VBA-120-AFN | 120 VAC | 108 | 132 | 0 |
| VBA-208-AFN | 208 VAC | 187 | 229 | 0 |
| VBA-220-AFN | 208/240 VAC | 198 | 242 | 0 |
| VBA-230-AFN | 230 VAC | 207 | 253 | 0 |
| VBA-240-AFN | 240 VAC | 216 | 264 | 0 |

*Adjustments - F = Fixed
K = Knob
L = Locknut

► APPLICATION NOTES – WIRING DIAGRAMS

