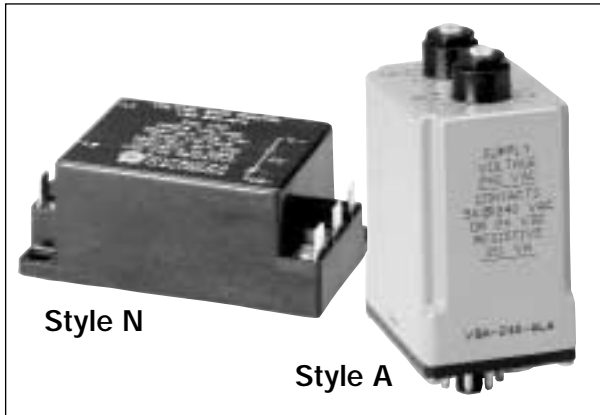


Single Phase Voltage Band Monitor/Relays



Style N

Style A



Style A Only

OPERATION

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.

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.

SPECIFICATIONS

RESPONSE TIMES

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

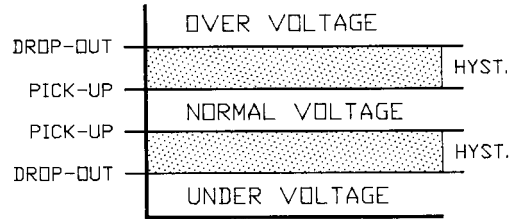
OUTPUT RATING: Style A – DPDT, 5A @ 240 VAC, Resistive; 211 VA @ 240, Inductive.
Style N – SPDT, 10A @ 240 VAC, Resistive; 180 VA, Inductive.

TEMPERATURES

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

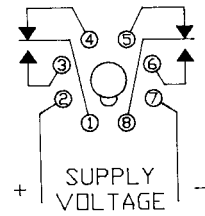
POWER REQUIRED

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



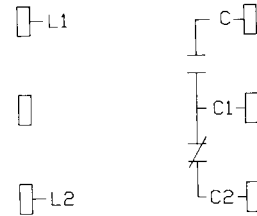
WIRING DIAGRAMS (SHOWN IN DE-ENERGIZED STATE)

PLUG-IN MODEL Style A



(DC POLARITY SHOWN)
RB-08 or PF083A

SURFACE MOUNTED Style N



MODEL NUMBER	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