

The **PBC Series** offers protection to three-phase equipment that is required to operate between two voltage limits. All three phases are monitored individually for a pre-selected **UNDER** and **OVER VOLTAGE** limit.

OPERATION

With normal operating voltages applied, the internal relay will energize (PICK-UP). When the voltages on any or all phases fall outside the pre-set Over/Under trip points for longer than the Release delay, the relay will de-energize (DROP-OUT). When line conditions return to normal, the PBC Series Monitor automatically resets and the internal relay energizes.

The LED fault indicators aid in set up and system trouble-shooting glowing on fault condition. The LED indicators have an immediate response to voltage conditions and operate independently of the relay.

The HYSTERESIS in each unit provides a differential of 4% between the PICK-UP and DROP-OUT trip points.

The PBC Series is UL Listed under UL File Number E55826.

SPECIFICATIONS

OUTPUT RATING	DPDT, 10Amps @ 240 VAC, Resistive; 360 VA @ 600 VAC, Inductive; 1/2 hp		
POWER REQUIRED	Models Up to 300 VAC	7 VA, Max	
	Models Over 300 VAC	6 VA, Max	
RESET	Automatic		
HYSTERESIS	4%		
REPEAT ACCURACY	0.1% @ Fixed Condition		
INDICATORS LED	Glow On Fault; (1) For Over, (1) For Under		
RESPONSE TIMES	Operate	100 mSEC	
	Release	0.5 SEC	
TEMPERATURE RATING	Operate	32° to +131°F (0° to +55°C)	
	Storage	-49° to 185°F (-45° to +85°C)	
WEIGHT	20 oz.		

DELTA CONNECTED

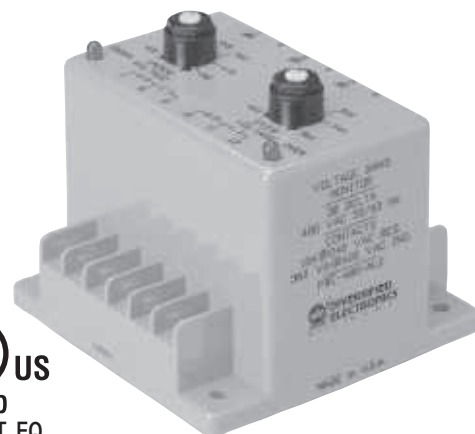
MODEL NUMBER	MAXIMUM VOLTAGE	ADJUSTABLE RANGES	
		UNDER	OVER
PBC-120-ALE	155 VAC	90-120	120-150
PBC-230-ALE	275 VAC	185-240	208-265
PBC-400-ALE	485 VAC	325-385	415-475
PBC-440-ALE	550 VAC	390-480	440-540
PBC-480-ALE	570 VAC	400-490	460-560
PBC-575-ALE	700 VAC	500-610	540-690

All voltages referenced on this page are phase-to-phase, unless otherwise indicated.

WYE CONNECTED

MODEL NUMBER	MAXIMUM VOLTAGE	ADJUSTABLE RANGES (Phases to Neutral)	
		UNDER	OVER
PBC-120/208-ALE	268 VAC	90-120	120-150
PBC-220/380-ALE	450 VAC	185-220	220-255
PBC-277/480-ALE	565 VAC	235-277	277-320

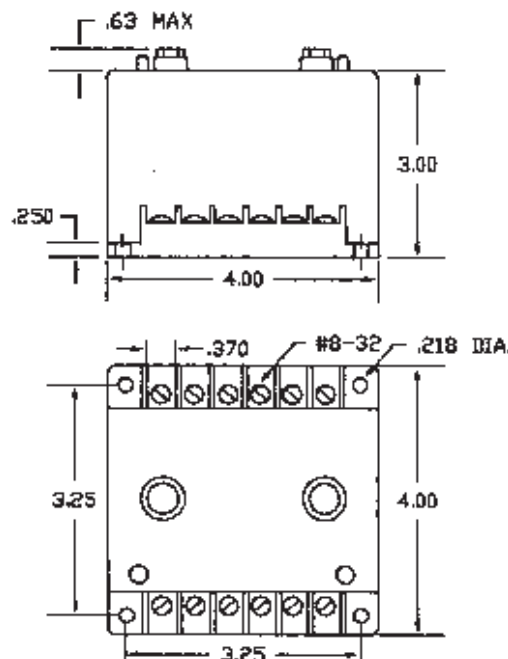
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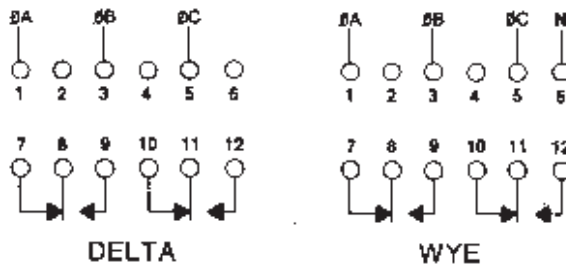
UL US
LISTED
IND. CONT. EQ
496Y

3-Phase Voltage Band Monitor

DIMENSIONS (INCHES)









WIRING












ORDERING INFORMATION

STYLE A PLUG-IN

MODEL NUMBER	OPERATING VOLTAGE	TYPE OF ADJUSTMENT	DROP-OUT VOLTAGE		AGENCY APPROVAL	OUTPUT RATINGS
			1 Ø LOW	3 Ø LOW		
SLA-120-ALA	95-130 Adj	Lock Shaft	79-108	85-117	—	DPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 2
SLA-120-ASA		Screwdriver				SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1
SLA-120-ASB					—	SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 3
SLA-230-ALA	190-270 Adj.	Lock Shaft	158-224	171-243		DPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 2
SLA-230-ASA		Screwdriver				SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1
SLA-230-ASB					—	SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 3
SLA-380-ASA	350-440 Adj.	Screwdriver	290-365	315-396	—	SPDT, 360 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1
SLA-440-ASA	430-480 Adj.		357-398	387-432	—	SPDT, 360 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1
SUA-120-ALA	95-130 Adj.	Lock Shaft	79-108	85-117		SPDT, 345 VA Inductive; 10 Amps Resistive @ 240 VAC, Figure 1
SUA-120-ALAU*					190-270 Adj.	
SUA-230-ALA	158-224	171-243	357-398	387-432		
SUA-230-ALAU*					IND. CONT. EQ 	
SUA-380-ASA	350-440 Adj.	Screwdriver	290-365	315-396		SPDT, 10 Amps Resistive @ 240 VAC, Figure 1
SUA-440-ASA	430-480 Adj.					


*UL Listed only when used with RB-08 relay socket; 5 Amps Resistive @ 240 VAC. All voltages referenced on this page are phase-to-phase. Models also available with fixed operating voltages. Consult factory.

STYLE E SURFACE MOUNTED ENCLOSURE

MODEL NUMBER	OPERATING VOLTAGE	DROP-OUT VOLTAGE		RESET	AGENCY APPROVAL	OUTPUT RATINGS
		1 Ø LOW	3 Ø LOW			
SLA-120-ALE	95-130 Adj.	79-108	85-117	Automatic	IND. CONT. EQ 	DPDT, 211 VA Inductive; 10 Amps Resistive @ 120 VAC, Figure 4
SLA-120-ALER				Manual	IND. CONT. EQ 	DPDT, 211 VA Inductive; 10 Amps Resistive @ 120 VAC, Figure 4
SLA-230-ALE	190-270 Adj.	158-224	171-243	Automatic	IND. CONT. EQ 	DPDT, 345 VA Inductive; 5 Amps Resistive @ 240 VAC, Figure 4
SLA-230-ALER				Manual	IND. CONT. EQ 	DPDT, 345 VA Inductive; 5 Amps Resistive @ 240 VAC, Figure 4
SLA-380-ALE	350-440 Adj.	290-365	315-396	Automatic	IND. CONT. EQ 	DPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC, Figure 4
SLA-380-ALER				Manual	IND. CONT. EQ 	SPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC, Figure 5
SLA-440-ALE	430-480 Adj.	357-398	387-432	Automatic	IND. CONT. EQ 	DPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC, Figure 4
SLA-440-ALER				Manual	IND. CONT. EQ 	SPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC, Figure 5
SLA-575-ALE	525-625 Adj.	436-519	473-563	Automatic	IND. CONT. EQ 	DPDT, 360 VA Inductive; 3 Amps Resistive @ 600 VAC, Figure 4

All voltage referenced are phase-to-phase.—Models also available with fixed operating voltages. Consult factory.

STYLE N EPOXY ENCAPSULATED

MODEL NUMBER	OPERATING VOLTAGE	TYPE OF OPERATION	DROP-OUT VOLTAGE		AGENCY APPROVAL
			1 Ø LOW	3 Ø LOW	
SLA-120-AFN	120	Fixed	100	108	
SLA-208-AFN	208	Fixed	173	187	
SLA-220-AFN	220	Fixed	183	198	
SLA-240-AFN	240	Fixed	199	216	

SPDT 180VA @ 120VAC; 72VA @ 24VAC; All voltage referenced are phase-to-phase.
SPDT 180 va @ 120 vac, 72 va @ 24 vac.