SLB Series

PHASE VOLTAGE MONITORS

The **SLB Series** is designed to protect three-phase equipment against **PHASE UNBALANCE**, **PHASE LOSS**, and **PHASE REVERSAL** conditions.

OPERATION

With normal operating voltages in the proper ABC sequence and the 120 VAC control voltage applied, the internal relay will energize (PICK-UP). When any combination of Phase Unbalance exceeding the preset value or Phase Loss or Phase Reversal occurs for longer than the preset drop out time, the output relay will de-energize (DROP-OUT). If the control voltage is removed, the relay will de-energize.

The wide input voltage range permits use on any one of several standard line voltages without recalibrating. The unbalance detection level is adjustable from 2% to 15%.

Both Delta and Wye systems may be monitored. In Wye systems, connections to neutral are not required.

The LED indicator glows when conditions are normal.

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NOTE: A balanced condition exists and the output relay will energize when there is a complete absence of voltage on all three phases (Terminals 1, 3 and 5) and the control voltage is continuously applied to (Terminals 11 and 12). For this reason, the SLB series is ideally suited for **LOAD SIDE MONITORING APPLICATIONS**.

SPECIFICATIONS					
OUTPUT RATING	SPDT, 10 Amps @ 120 VAC, 5 Amps @ 240 VAC, Resistive				
PHASE SEQUENCE	ABC (Will Not Operate CBA)				
OPERATING VOLTAGE	See Table Below				
CONTROL VOLTAGE	120 VAC, 1 Phase, 60 Hz				
POWER REQUIRED	3 VA, Max.				
PHASE UNBALANCE RANGE	2% to 15%, Adjustable				
INDICATORS LED	Glows When All Conditions Are Normal				
RESPONSE TIMES	Operate Release	60 mSEC, Fixed 0.1 to 5 SEC, Adjustable			
TEMPERATURE RATING	Operate Storage	32° to +104°F (0° to +40°C) -49° to 185°F (-45° to +85°C)			
ENCLOSURE	Style "E" LEXAN® Surface Mount				
WEIGHT	1 lb. 2 oz.				

The SLB Series will not detect an equal and simultaneous reduction in voltage on all three lines (Brown Out).

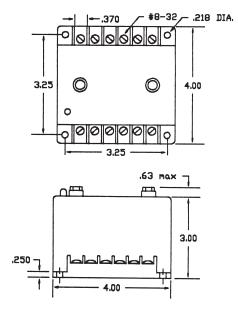
MODEL NUMBER	OPERATING VOLTAGE	RESET	HYSTERESIS
SLB-200-ALEA	Standard 0-300; 3 Ø Line Voltages	Automatic	10% of Unbalance Setting
SLB-200-ALER	60 Hz.	Manual	None
SLB-400-ALEA	Standard 300-500; 3 Ø Line Voltages 60 Hz	Automatic	10% of Unbalance Setting

All voltages referenced on this page are phase-to-phase.



Phase Unbalance Monitor

DIMENSIONS (INCHES)



WIRING

ØA 1	0 2	ØB 	0 4	ØC 0 5	() 6
7	8	9 	10 ()	11 0 120	12 O VAC