

Three Phase Current Unbalance and Over Current Monitor/Relays



OPERATION

The CLB Series is designed to protect three phase equipment against ***Current Unbalance** and **Over Current** conditions.

The control voltage is continuously applied to supply the sensing circuitry and the internal relay.

When the current of any phase approximately 20% above the maximum operating current, the inrush delay begins. This delay disables the over current sensors while high inrush currents are present. Any time the currents are outside the preset limits after completion of the inrush delay, the internal relay will de-energize (Drop-out).

A 2% differential (hysteresis) between Pick-up and Drop-out is incorporated to prevent chattering when operated in the automatic reset mode and the current is at the trip point.

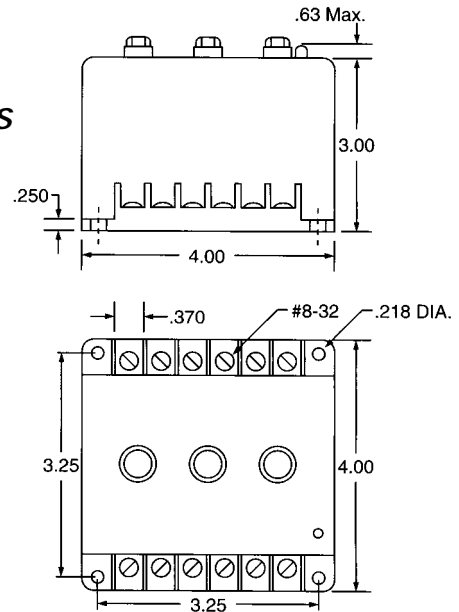
The reset mode is selected as follows:

Automatic: Place a jumper between pins ten (10) and eleven (11).

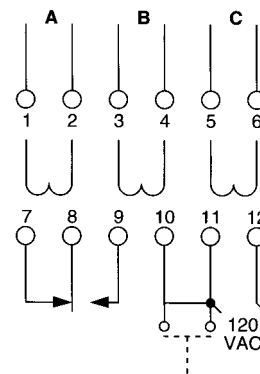
Manual: Place a normally open switch between pins ten (10) and eleven (11). When there is a loss and reapplication of the control voltage, the external switch must be closed before the circuit will again become operative.

MODEL NUMBER	CONTROL VOLTAGE	OVER CURRENT RANGE
CLB-120-ALE-5	120 VAC	1.0-5.0 Amps, Adjustable
CLB-120-ALE-10	120 VAC	2.0-10 Amps, Adjustable

DIMENSIONS INCHES



WIRING DIAGRAM



SPECIFICATIONS

OPERATING VOLTAGE: 3-Phase, 50/60 Hz, 600 V max

CONTROL VOLTAGE: 120 VAC, 50/60 Hz

OVER CURRENT: See Table for Adjustable Ranges

UNBALANCE RANGE: 5% to 25%, Adjustable

HYSTERESIS: 2% of Unbalance Setting

RESPONSE TIMES

Operate: 1 Second, Maximum
Release: 100 Milliseconds

TEMPERATURES

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

RESET: Automatic or Manual

INRUSH DELAY: 0.1 To 10 Seconds, Adjustable; Initiated When Current of Any Phase rises 20% Above the Maximum Operating Current

OUTPUT: SPDT, 10 Amps @ 240 VAC Res.

INDICATOR: LED Glow When All Conditions Are Normal