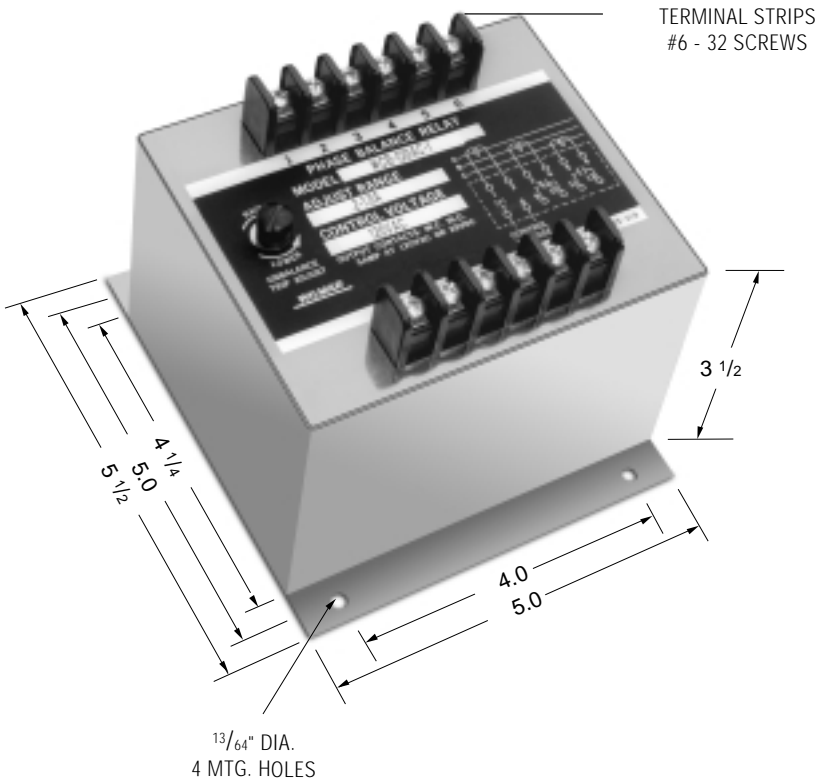


**WILMART™ Protective Relays – WCB Series**



**Note:** Dimensions in inches. Multiply values by 25.4 for dimensions in mm.

**Function:** 60 or 87

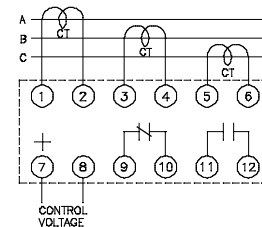
- ANSI/IEEE C37.90-1978
- UL file No. E58048
- CSA file No. LR61158



Current Balance Relays are designed to sense unbalanced current flow in a three phase system. The primary application of Current Balance Relays is to protect three phase motors against phase unbalance or phase failure.

**Operation:**

With control voltage applied to the relay, the output contacts will energize when the three phase currents are balanced (including zero currents), and will be de-energized by unbalance currents.



**PRODUCT SPECIFICATIONS**

Part Number	WCB Series
Line Current .....	Three Phase, AC current, 50-400 Hz Direct or from CT. 5 amp continuously 20 amp, 30 sec. 200 amp, 0.10 sec.
Control Voltage .....	See Part Number Selection
Unbalanced Trip Point .....	Screwdriver adjustable. Adjustment range in accordance with ordering information. (The unbalanced value is defined as the difference between the highest and the lowest phase current).
Drop-Out Time Delay .....	0.9 to 1.3 seconds
Surge Withstand Capability .....	In compliance with C37.90B ANSI/IEEE
Operating Temperature .....	-40°C to +70°C
Burden .....	Current input: 5.0 VA, Phase Control voltage: 3.0 VA
Contact Ratings .....	One set, N.O., One set N.C. 5 amp resistive at 120 VAC or 28 VDC

**PART NUMBER SELECTION**

Sample Part No. WCB-120AC-1-A

Type: \_\_\_\_\_  
WCB = Current Balance

Control Voltage ( $\pm 15\%$ ) \_\_\_\_\_  
26 DC  
48 DC  
125 AC  
120 AC  
230 AC  
380 AC  
460 AC

Trip Adjustment Range \_\_\_\_\_  
.5 = 0.1 amp to 0.5 amps  
1 = 0.2 amp to 1 amp  
2 = 0.4 amp to 2 amp

Options: \_\_\_\_\_  
A = two normally open contacts  
B = two normally closed contacts

**Notes:**

1. Remove black screw for access to the trip adjustment.
2. Clockwise rotation of the adjustment potentiometer will raise the unbalance trip point.
3. The output contacts are shown de-energized.