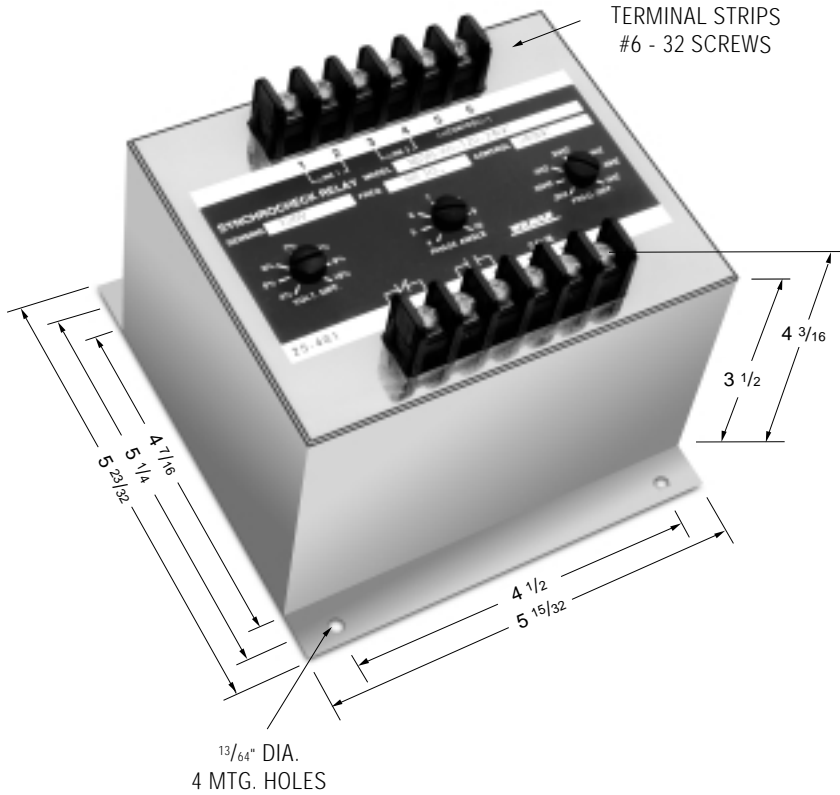
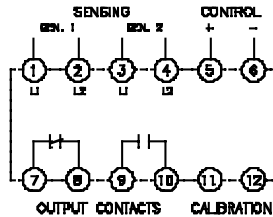


WILMART™ Protective Relays – WSYN Series



TERMINAL STRIPS
#6 - 32 SCREWS

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



PRODUCT SPECIFICATIONS	
Part Number	WSYN Series
Sensing Voltage	Single Phase, see Part Number Selection
Control Voltage	See Part Number Selection
Voltage Differential Adjust Range	4% to 10% of nominal voltage
Phase Angle Adjust Range	4 to 10 electrical degrees
Frequency Differential Adjust Range	0.2 Hz to 0.5 Hz
Operating Temperature	-20° C to +50 °C
Contact Ratings	5 amp resistive at 120 VAC or 28Vdc
Output Contacts	One set N.O., one set N.C.

Notes:

1. Remove black cover screws to gain access to the adjustment potentiometers.
2. Clockwise rotation increases the trip differential setting.
3. Calibration terminals (11) (12) must be connected together to disable the phase angle detector when setting the frequency difference trip point. Once it is set, the connection must be removed.

Function: 25

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



Operation:

- A. The output relay will energize when all three of the following conditions are met:
1. Voltage differential is below the preset value.
 2. Phase angle is below the preset value.
 3. Frequency differential is below the preset value.
- B. The relay is also provided with a "Double Dead Bus" feature: When the voltage on either one of the sensing inputs is below 15-25% of nominal, (Dead Bus Condition), the output relay will energize to permit paralleling.

When both sensing voltage are below 15-25% of nominal, the output relay will not energize.

PART NUMBER SELECTION

Sample Part No. WSYN-50-120-12DC-A

Type: _____

WSYN - Synchro Check

Frequency Hz _____

50

60

400

Sensing Voltage VAC (±10%) _____

120 400

200 416

208 440

220 460

230 480

240 525

380 575

Control Voltage (±20%) _____

12DC 120AC

24DC 230AC

48DC 380AC

125DC 460AC

Options _____

- A = two normal open contacts
- B = two normally closed contacts
- H = Contacts rated 3 amp at 125 VDC
- P = Transient Protection

Transient Protection - All voltage relays will withstand momentary voltage surges of twice the nominal rated input voltage (standard).