

**WILMAR™ Protective Relays – 1000 Series**

**Function:** 47

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

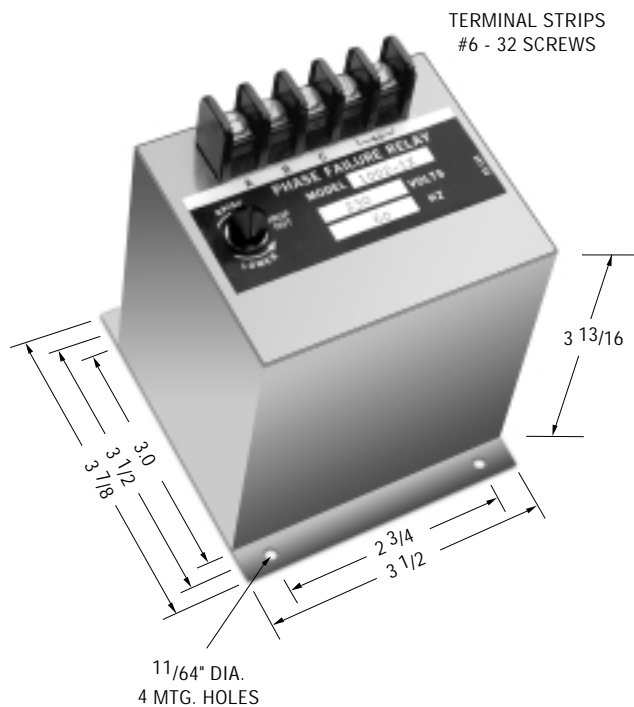


Phase failure relays protect motors, equipment and personnel from damage or injury caused by open phase, reversed phase sequence, or low voltage in a three phase system. Models are available for 50 and 60 Hz with voltages up to 575 volts. Motor control switchboards are a common application.

**Operation:**

The contacts of the relay will close only when it senses normal conditions of three phase power at the proper phase sequence.

The relay contacts will remain in their normally open position (de-energized) when voltage with incorrect phase sequence is applied, one or more phases are open, or at undervoltage condition.



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

**PART NUMBER SELECTION**

Sample Part No. 1004X

- Type: \_\_\_\_\_
- 1001 = 120 V, 60 Hz, 3 phase, L-L
  - 1007 = 208 V, 60 Hz, 3 phase, L-L
  - 1002 = 230 V, 60 Hz, 3 phase, L-L
  - 1012 = 300 V, 60 Hz, 3 phase, L-L
  - 1013 = 350 V, 60 Hz, 3 phase, L-L
  - 1003 = 380 V, 50 Hz, 3 phase, L-L
  - 1004 = 460 V, 60 Hz, 3 phase, L-L
  - 1005 = 525 V, 60 Hz, 3 phase, L-L
  - 1006 = 575 V, 60 Hz, 3 Phase, L-L

Mounting: \_\_\_\_\_

X = Flange  
Blank - Stud

Consult factory for additional models and options

**Notes:**

1. Remove screw for access to the undervoltage adjustment.
2. Clockwise rotation of the adjustment potentiometer will raise the drop-out voltage.

**PRODUCT SPECIFICATIONS**

Part Number	1000 Series
Nominal Voltage .....	See Table
Voltage Drop-Out .....	75% to 100% of nominal, screwdriver adjustable
Pick-Up to Drop-Out Differential ....	3% approx.
Ambient Operating Temperature ....	-40°C to +70°C
Temperature Drift .....	± 1%
Time Delay .....	See Curve
Output Contacts .....	One set, normally open
Contact Ratings .....	10 amp at 28 VDC resistive 10 amp at 230 VAC resistive