

**WILMAR™ Protective Relays – 20-000 Series**

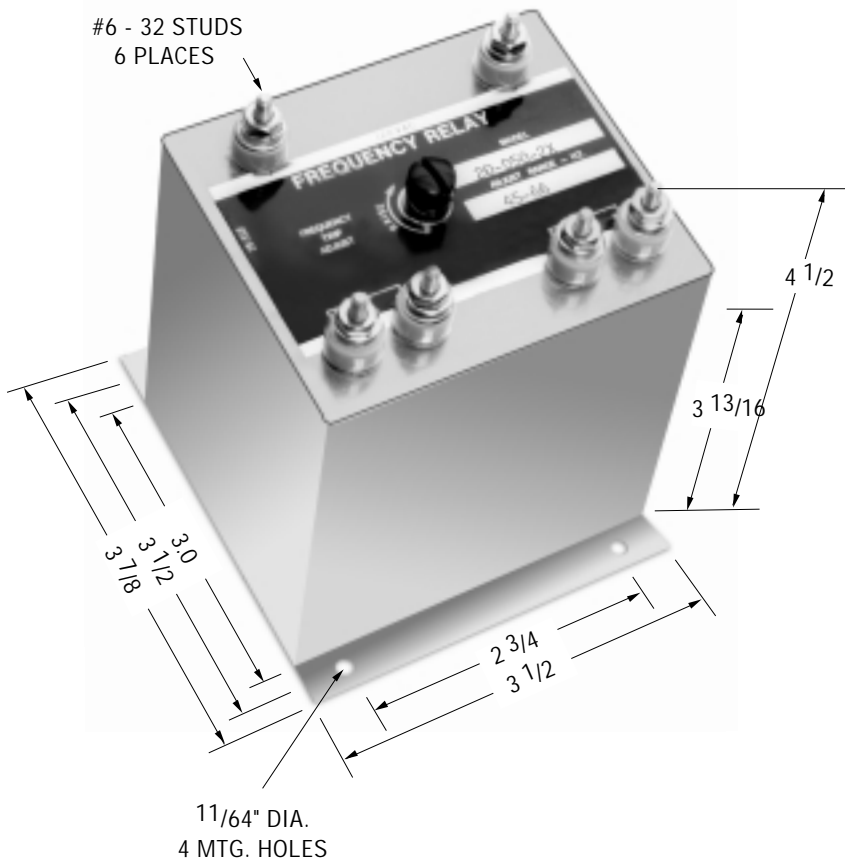


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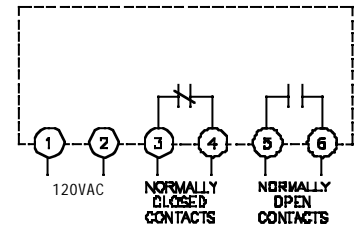
The output contacts of frequency relays are energized when the frequency exceeds the adjustable set point. Overfrequency and underfrequency relays are available in 50, 60 and 400Hz. Combination over/underfrequency "band pass" relays are also available. These are energized at rated frequency and de-energized during overfrequency or underfrequency conditions. Frequency Differential relays are energized between the preset frequencies. The pick-up and drop-out frequency settings are independently adjustable.

**Operation:**

The normally open contacts close, and the normally closed contacts open, at all frequencies above the set point. The contacts in the connection diagram, are shown in the de-energized position (below the trip set point).



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



PRODUCT SPECIFICATIONS	
Part Number	20-000 Series
Input Voltage (±10%) .....	120 VAC, Single Phase
Frequencies Range (adjustable) .....	See Part Number Selection
Differential .....	Frequency pick-up to drop-out differential is 1% max
Temperature Range .....	-40°C to +85°C
Temperature Drift .....	± 1% frequency error over temperature range
Voltage Error .....	± 1% for input voltage of 120 VAC ± 10%
Contact Ratings .....	5 amp resistive at 120 VAC or 28 VDC
Output Contacts .....	One set N.O., one set N.C.

**Notes:**

1. Remove screw for access to trip adjustment.

PART NUMBER SELECTION	
Sample Part No.	20-050X
Type:	20 - Frequency
Frequency Range	040 = 40-50 Hz 050 = 50-60 Hz 060 = 60-70 Hz 350 = 350-500 Hz 400 = 400-450 Hz
Mounting Options	X = Flange blank = Stud

Consult factory for additional models.