

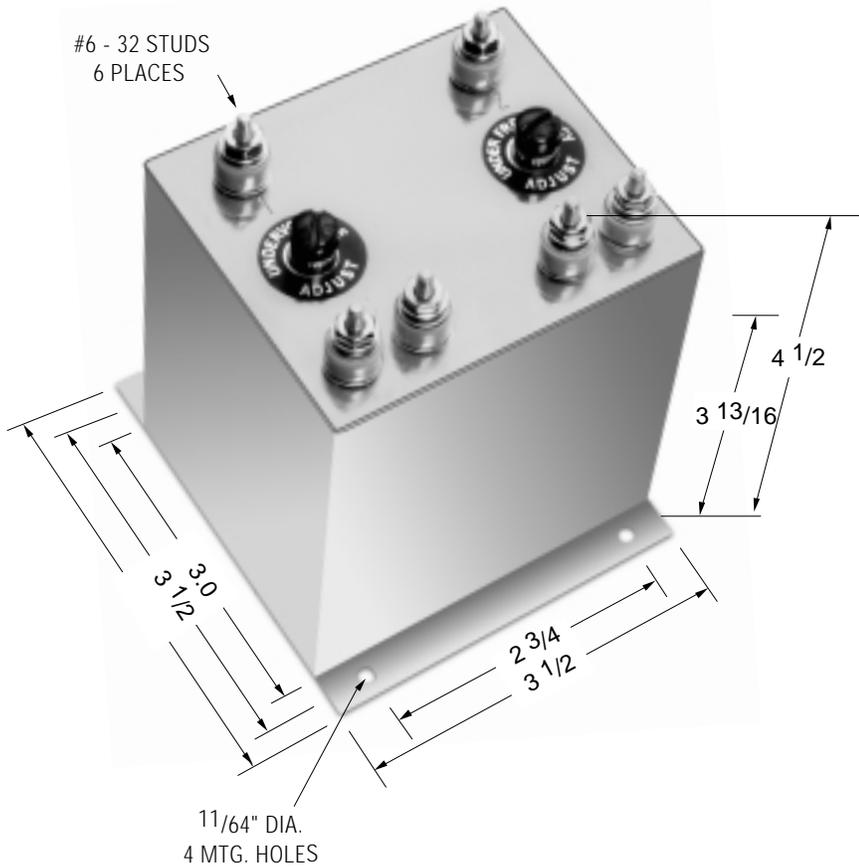
**WILMAR™ Protective Relays – 20-050-19 Series (Voltage/Frequency)**

**Function:** 27/81

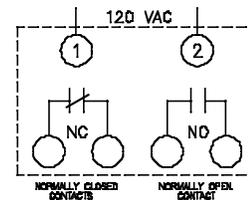
- ANSI/IEEE C37.90-1978
- UL file No. E58048
- CSA file No. LR61158



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 above the preset frequency. The pick-up and drop-out frequency settings are independently adjustable.



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



PRODUCT SPECIFICATIONS	
<b>Part Number</b>	<b>20-050-19 Series</b>
Nominal Voltage (±20%) .....	120 VAC, Single Phase
Nominal Frequency .....	60 Hz.
Voltage Adjustment Range (PU) .....	85 to 120 VAC
Frequency Adjustment Range (PU) .....	45 to 60 Hz
Output Contacts .....	One set N.O., one set N.C.
Contact Ratings .....	5 amp resistive at 120 VAC or 28 VDC

**PART NUMBER SELECTION**

Sample Part No. 20-050-19X

Type:  
20-050-19 = Voltage/Frequency

**Mounting Options**  
Blank = stud  
X = Flange

**Options:**  
P = Surge Suppression

**Notes:**

1. Remove black screws for access to the voltage and frequency and the time adjustments.
2. Clockwise rotation of the voltage adjustment potentiometer will raise the voltage trip point.
3. Clockwise rotation of the frequency adjustment will raise the frequency time point.