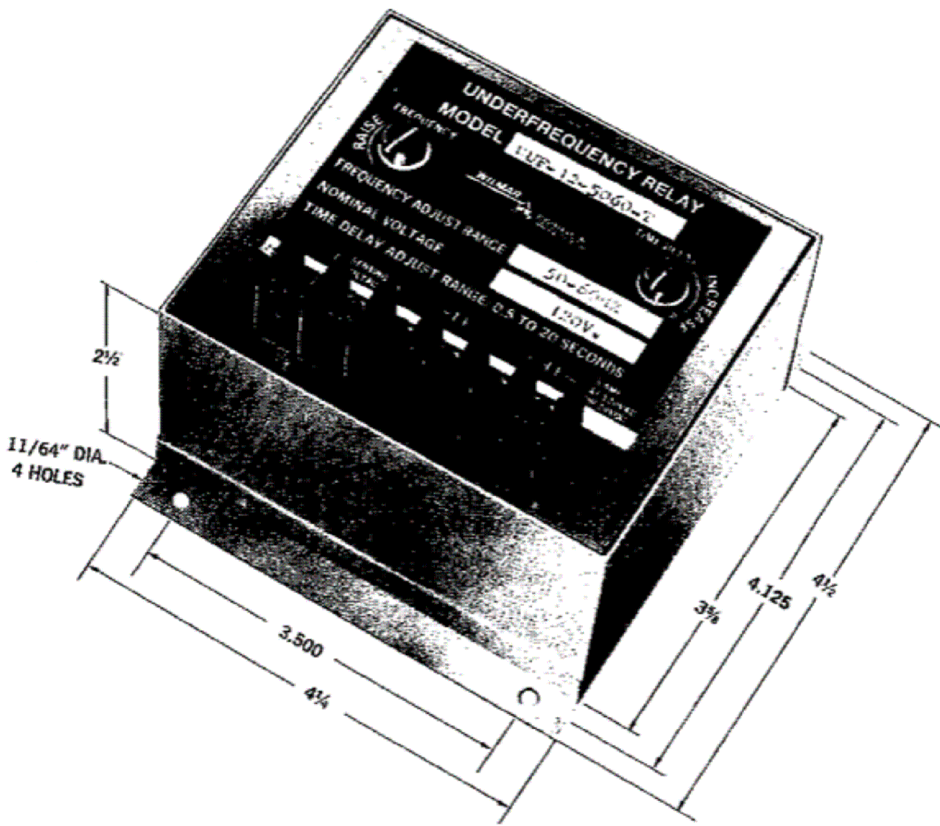


WUF-12-90100-T UNDER FREQUENCY RELAY

REVISIONS

REV.	ECO	DESCRIPTION	DATE	APPROVED
A	-	INITIAL DRAWING	25AUG2020	TN



PRODUCT SPECIFICATIONS

Part Number	WOF/WUF
Nominal Voltage ($\pm 20\%$)	120, 230, 380 and 460 volts
Nominal Frequencies	50, 60 and 400 Hz.
Trip Point	Screwdriver adjustable. Adjustment range in accordance with ordering information.
Operating Temperature	-20°C to +65°C
Differential	The frequency pitch-up to drop-out differential is .5% max
Voltage Drift	$\pm .05\%$ maximum frequency error for input voltage variation of $\pm 10\%$
Time Delay	See Time versus Frequency curves
Surge Withstand Capability	In compliance with C37.90B ANSI/IEEE
Output Contacts	One set N.O., one set N.C.
Contact Ratings	5 amp resistive at 120 VAC or 28VDC

Notes:

1. Remove black screws for access to the frequency and the time adjustments.
2. Clockwise rotation of the frequency potentiometer will raise the frequency trip point.
3. Clockwise rotation of the time adjustment, option "T" will increase the time for overfrequency relays and dropout time for underfrequency relays..



TITLE		UNDER FREQUENCY RELAY		
TE P.N.		DWG NO.		
1-1618112-1		WUF-12-90100-T		
DS	DATA SHEET	CAGE CODE	SCALE	SHEET
		-	NONE	1 OF 2
				REV A

PART NUMBER SELECTION

Sample Part No. WUF-12-5060-T

Type:

WUF = Underfrequency
WOF = Overfrequency

Input Voltage (VAC)

12 = 120
23 = 230
38 = 380
46 = 460

Frequency Range

4050 = 40-50 HZ
5060 = 50-60 HZ
6070 = 60-70 HZ
3540 = 350-400 HZ
4045 = 400-450 HZ (overfrequency only)

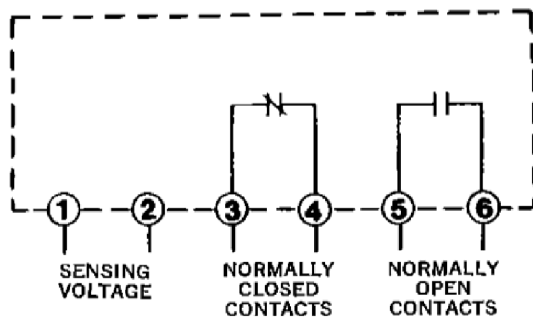
Time Delay Options

blank = Per Time Curve
T = Adjustable

EXAMPLE: WUF-12-5060-T

This indicates an Underfrequency Relay with a nominal input voltage of 120VAC and an adjustable underfrequency trip range of 50-60 Hz. Suffix "T" provides an adjustable time delay up to 20 seconds.

CONNECTIONS



Time Delay

Standard Time Delay

A minimum, fixed inverse time delay is incorporated in all frequency relays to prevent nuisance tripping and is represented by the typical curves shown below.

Adjustable Time Delay

If additional time delay is required, a suffix "T" must be added to the part number. This allows the minimum fixed time delay to be field-adjustable up to 20 seconds

Function: 81 O/U

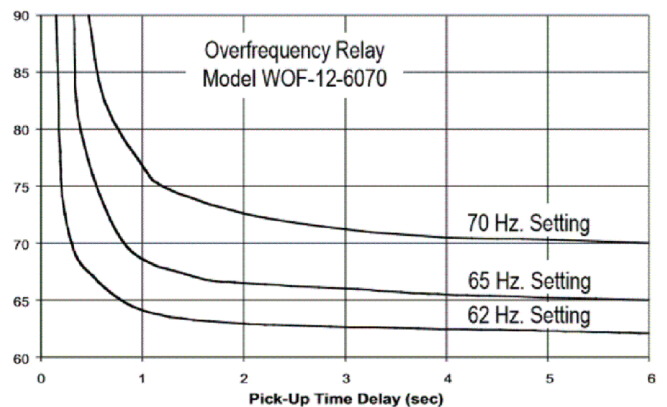
- ANSI/IEEE C37.90-1978
- UL file No. E58048
- CSA file No. LR61158



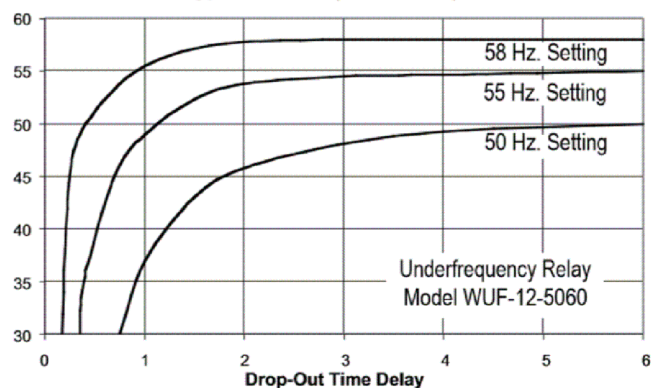
Application:

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.

Typical Curves (WOF Series)



Typical Curves (WUF Series)



TE CONNECTIVITY
CARPINTERIA, CA 93013

TITLE

UNDER FREQUENCY RELAY

TE P.N.

1-1618112-1

DWG NO.

WUF-12-90100-T

CAGE CODE

—

SCALE

NONE

SHEET

2 OF 2

REV

A

DS DATA SHEET