

Wilmar Over/Under Freq. Relay

Features

Physical:

- 73 x 75 x 112 mm
- Snap Mounting on DIN rail (DIN EN 50022-35)

Environmental:

- Temperature range -40°C to 60°C

Sensing Range:

- Selectable Sense Frequency: 50, 60 and 400Hz
- 20 – 480 VAC Voltage Range

Time Delay:

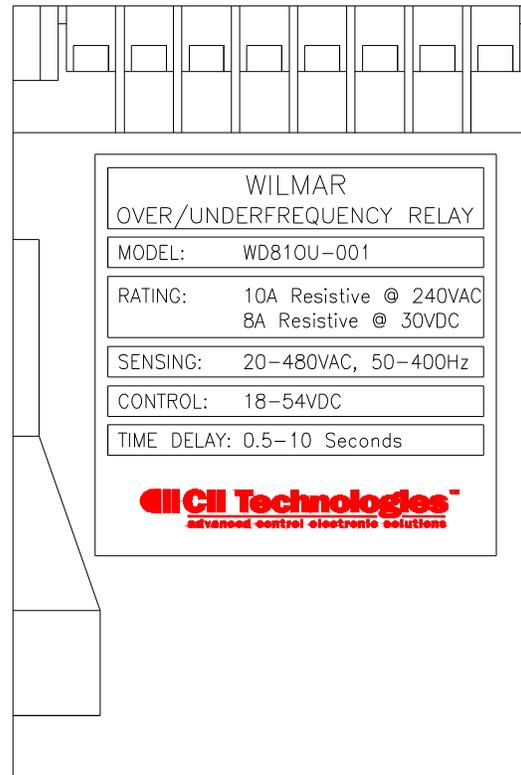
- Adjustable from 0.5 s to 10 s.

Control Voltages Available:

- Model WD81OU-002: 12 to 32 VDC
- Model WD81OU-001: 18 to 54 VDC
- Model WD81OU-003: 100 to 200 VDC or 100 to 140VAC

Contact Rating

- 10A Resistive at 240 VAC
- 8A Resistive at 30 VDC



Preliminary Specifications.
Subject to change.

CII Technologies™
advanced control electronic solutions

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PREP. BY

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TITLE

Wilmar Over/Under Freq. Relay

DWG NO.

WD81OU-xxx

CAGE CODE

18741

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General Specifications

Physical Data	Units	
Dimensions	mm	73 x 75 x 112

Environmental Data		
Operating Temperature Range	°C	-40 to +60
Shock	g	10
Vibration		0.062" DA at 10-55 Hz
Weight	lbs	0.9

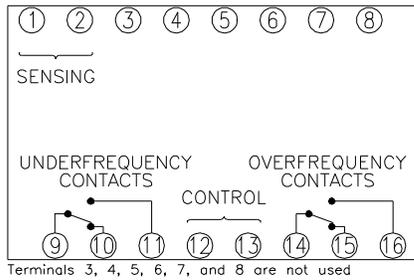
Electrical Data				
<i>Sense</i>				
Nominal Operating Frequency	Hz	Selectable		
		50	60	400
Maximum Sense Voltage	Vac	575	575	575
Under Freq. adjustment Range	Hz	40-50	48-60	320-400
Over Freq. adjustment Range	Hz	50-60	60-72	400-480
<i>Control</i>				
Model		WD810U-001	WD810U-002	WD810U-003
Input Voltage	Vdc	18 to 54	12 to 32	100 to 200
	Vac	-	-	100 to 140
Max Power Consumption	VA	2.5		
<i>Contacts</i>				
Form		C (1 each for UF and OF)		
Rating	A	10A Resistive at 240 Vac 8A Resistive at 30 Vdc		
<i>Time Delay</i>				
Adjustment Range	s	0.5 to 10		
Isolation from Control to Sense Inputs	Vdc	1500		

Description of Operation

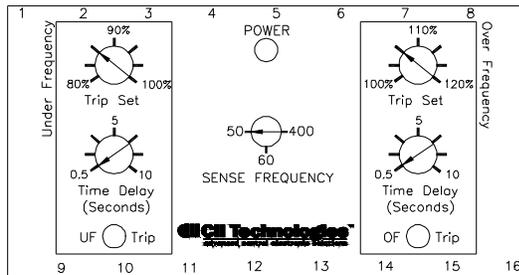
Under Frequency: With control power applied, the Under Frequency Contacts pickup when the Sense Frequency falls below the Under Frequency set point (after the set time delay). When the Sense Frequency rises above the Under Frequency set point the Under Frequency Contacts immediately dropout (no time delay).

Over Frequency: With control power applied, the Over Frequency Contacts pickup when the Sense Frequency rises above the Over Frequency set point (after the set time delay). When the Sense Frequency falls below the Over Frequency set point the Over Frequency Contacts immediately dropout (no time delay).

Connection Diagram



Controls



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WD810U-xxx

THIRD ANGLE PROJECTION



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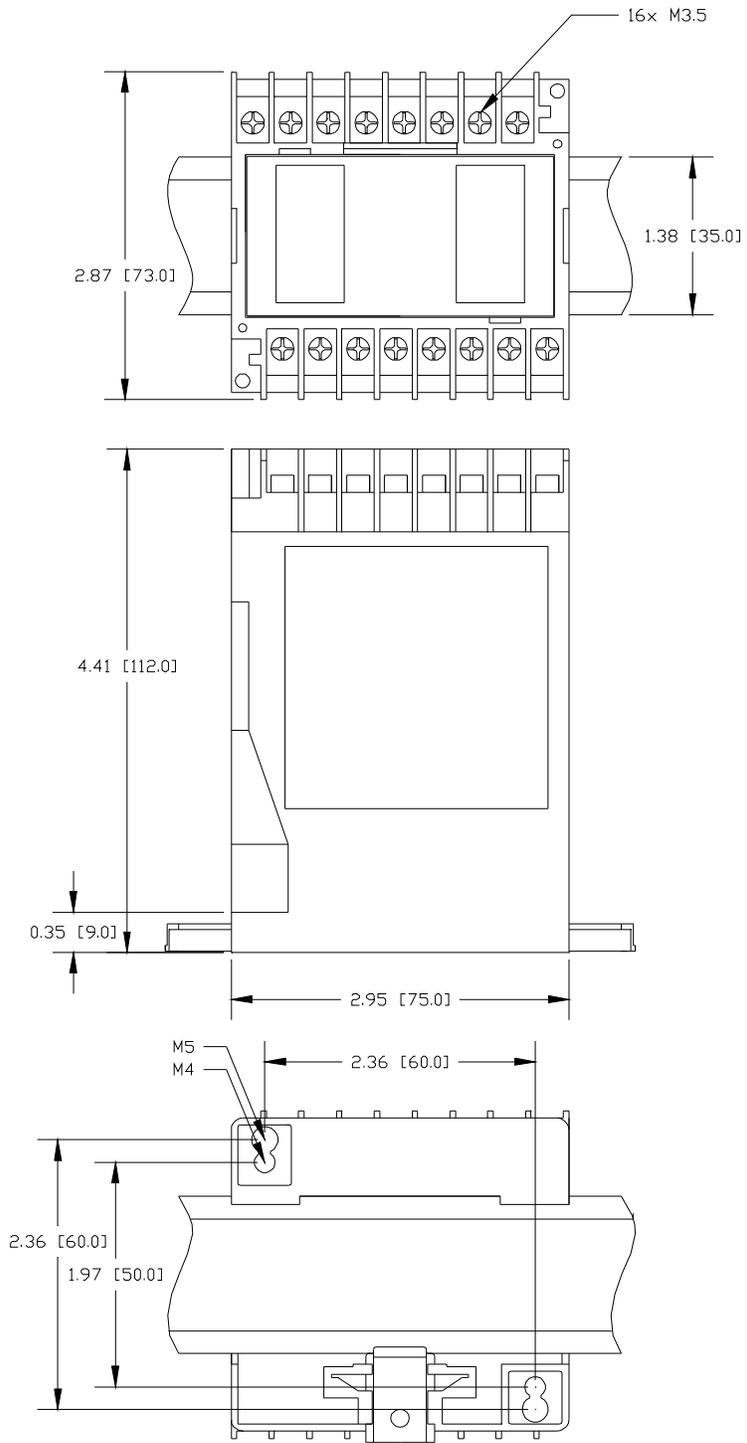
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Part Drawing

Notes:

1. Snap Mounting for DIN rail (DIN EN 50022-35) or Screw Mounting (M4 or M5)
2. Max Conductor Size:
 2x 2.5mm² solid to DIN 46288 or
 2x 1.5mm² stranded w/ end sleeves



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Revisions

REV.	DESCRIPTION	DATE	APP.
1	Initial Concept	99/11/22	MSM
2	Control voltage for WD81OU-003 was 120VDC	99/12/06	MSM
3	Max voltage was "700vdc"; Under Freq. Adj. Range was "360 – 400" Sense voltage was "120 – 480" , Model was WD47	00/04/06	MSM



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