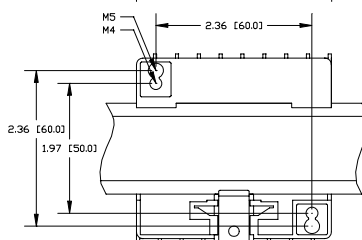
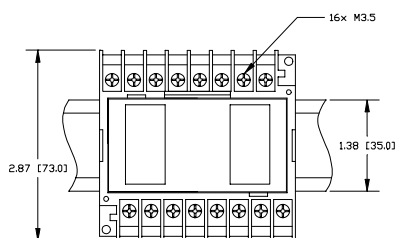
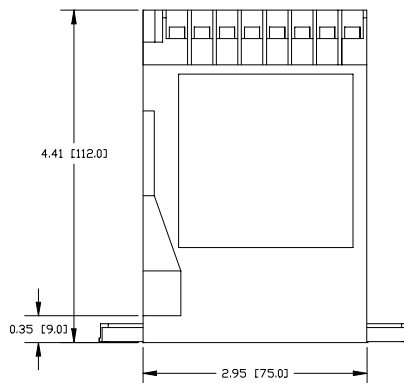
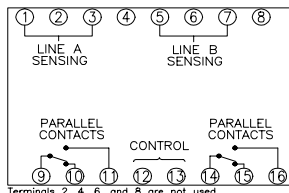


Kilovac - WD25-XXX Paralleling Relay
Din Rail Mounting



Notes:

1. Snap Mounting for DIN rail (DIN EN 50022-35) or Screw Mounting M4 (#8) or M5 (#10)
2. Max Conductor Size:
2x14 awg (2.5mm²) solid to DIN 46288 or
2x 16 awg (1.5mm²) stranded w/ end sleeves



Connections

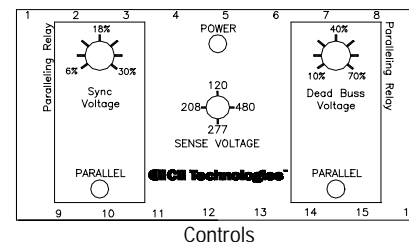
Function: 25

- ANSI/IEEE C37.90-1978
- DIN EN50022-35
- UL Recognized



Operation:

WD25 paralleling relays are used to ensure that two ac circuits are synchronized. When voltage, phase relationship, and frequency are within the selected synchronizing limits the output relay will energize. The WD25 paralleling relay allows for a generator to be brought on-line without damage or system disturbance. WD25 series with a "dead bus" feature will energize for a synchronized condition or an "on-line" generator, "dead bus" condition. This "dead bus" feature allows the generator to energize a dead bus. The "double dead bus" feature permits paralleling of two busses when: (a) both line voltages are equal and in phase, or (b) when either bus is "hot" and the other bus is "dead".



Controls

SENSE VOLTAGE

Voltage (nominal)	120	208	277	480
Sync. Voltage (% of nom.)	6-30% (= 4° - 20° electrical degree)			
Dead Buss Voltage (% of nom.)	10-70% (Dead Bus)			

PRODUCT SPECIFICATIONS

Part Number	Unit	WD25
Nominal Operating Voltage	Vac	120, 208, 277 or 480, selectable
Maximum Sensing Voltage	Vac	575
Nominal Frequency Range	Hz	40-400
Contact Form		2 form C
Contact Ratings	A	5 A resistive at 240 Vac 5 A resistive at 30 Vdc.
Isolation from Control to Sense Inputs	Vac	2500
Operating Temperature Range	°C	-40 °C to +60 °C
Mechanical Life (operations)		1 x 10 ⁷
Shock	g	10
Vibration		0.062" DA at 10-55
Weight	lbs	.9 (.4 kg)

CONTROL VOLTAGE

Model WD25	-0X1	-0X2	-0X3
Input Voltage Vdc	18 to 54	13.5 to 32	100 to 200
Input Voltage Vac	--	--	100 to 140
Power Consumption	2.5 VA (max.)		

PART NUMBER SELECTION

Sample Part No. WD25-002

Type:

WD25 -Paralleling Relay

Dead Bus

0 = Double Dead Bus

1 = Single Dead Bus

2 = Generator to Generator

Control Voltage

1 - 18 to 54 Vdc

2 - 13.5 to 32 Vdc

3 - 100 - 200 Vdc or 100-140 Vac

Instructions for WD25-XXX

Paralleling Relays

INSTALLATION

Wilmar WD25 Paralleling Relays mount on standard DIN rails (DIN-EN 50022) or surface mounted using screws. To mount the relay on a DIN rail hook the top edge of the cutout on the base of the case over one edge of the DIN rail then press the opposite side of the cutout containing the release clip over the opposite side of the DIN rail. To remove or reposition the relay, lever the release clip and move the relay as required. WD25 relays should be installed in a dry location where the ambient temperature does not exceed the operating temperature range.

MAINTENANCE

Wilmar Protective Relays are solid-state devices that require no maintenance. If the relay requires repair contact CII Technologies—Kilovac Division for return authorization.

CALIBRATION

The calibration marks on the faceplate are provided only as guides. Proper calibration requires using an accurate voltmeter. Use the following procedure to calibrate your relay:

1. Remove the cover.
2. Adjust the SYNC VOLTAGE control fully counterclockwise (CCW). Apply nominal voltage to the LINE B (bus) sensing terminals.
3. Apply the maximum desired synchronization voltage to the LINE A (generator) terminals. This voltage should be in phase with LINE B (bus) voltage and have the same frequency.
4. Slowly adjust the SYNC VOLTAGE control clockwise (CW) until the relay energizes.

Note:

For single dead Bus option, connect the Gen to 1 & 2 and the Bus to 4 & 5.

