

**WILMAR™ Protective Relays – WGD Series – Floating Ground**

**Function:**

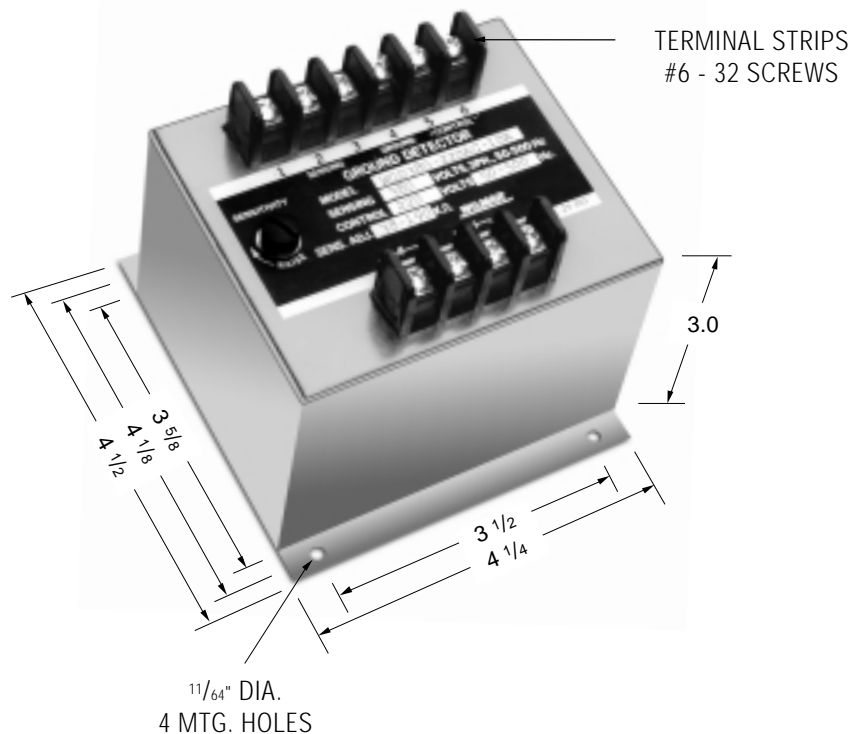
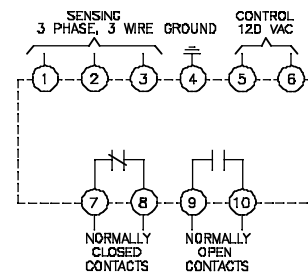
- ANSI/IEEE C37.90-1978
- UL file No. E58048
- CSA file No. LR61158



WILMAR Ground Fault Detectors are used to sense leakage current to ground in power transformers and generators. They are available for both AC and DC systems. Some generator systems provide auxiliary power outlets for small equipment. WILMAR GFD's eliminate personnel risk of accessing these outlets if a ground fault exists. Diesel locomotives and railroad line signal boxes also use WILMAR GFD's for operational control purposes. The GFD monitors both positive and negative grounds for fault currents and can trigger either notification or system shutdown if these are detected. WILMAR GFD's are available for both grounded and ungrounded systems.

**Operation:**

When the resistance between any phase to ground falls below the set point the relay will energize; The normally closed contacts will open, the normally open contacts will close.



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

**PART NUMBER SELECTION**

Sample Part No. Type:	WGD- Volts L-L	Trip Point Adj. Phase to Ground
115-120AC	115	11-55KΩ
120-120AC	120	12-60KΩ
200-120AC	200	20-100KΩ
208-120AC	208	21-105KΩ
220-120AC	220	22-110KΩ
230-120AC	230	23-115KΩ
240-120AC	240	23-115KΩ
380-120AC	380	38-190KΩ
400-120AC	400	40-200KΩ
416-120AC	416	42-210KΩ
440-120AC	440	44-220KΩ
460-120AC	460	46-230KΩ
480-120AC	480	48-240KΩ
525-120AC	525	52-260KΩ
575-120AC	575	57-285KΩ
600-120AC	600	60-300KΩ

**Notes:**

1. Remove screw for access to the pick-up adjustment potentiometer.
2. Clockwise rotation of the adjustment potentiometer will raise the relay sensitivity.

**PRODUCT SPECIFICATIONS**

Part Number	WGD Series
Sensing Voltage (±10%) .....	3 phase, 3-wire. See table
Control Voltage .....	120 Volts AC
Contacts Trip Points (sensitivity) ...	Screwdriver adjustable. See Table.
Pick-up Time Delay .....	1.5 seconds approximately
Contact Ratings .....	5 amp resistive at 120 VAC or 28 VDC
Operating Temperature .....	-40°C to +65°C
Temperature Effects .....	± 1% over temperature range
Power Consumption .....	Sensing: 2 mA/Phase Approx., Control: 2VA at 120VAC
Surge Withstand Capability .....	In accordance with the requirements of ANSI/IEEE