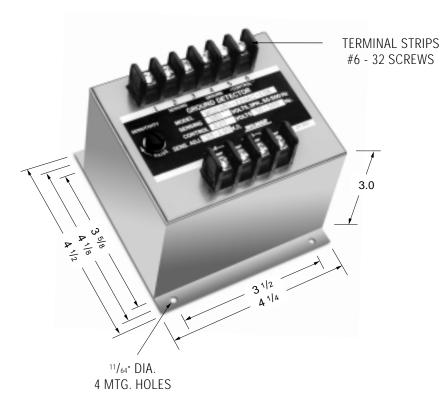


WILMAR™ Protective Relays – WGD Series – Floating Ground



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

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	

Function:

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

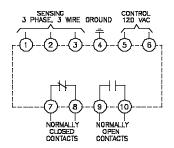




WILMAR Ground Fault Detectors are used to sense leakage current to ground in power transformers and generators. They are available for both AC and DC systems. Some generator systems provide auxiliary power outlets for small equipment. WILMAR GFD's eliminate personnel risk of accessing these outlets if 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.



PART	NUMBER S	ELECTION
Sample Part No.	WGD-	
Type:	Volts L-L	Trip Point Adj.
		Phase to Ground
115-120AC	115	11-55K $Ω$
120-120AC	120	12-60K Ω
200-120AC	200	20 - 100 Κ Ω
208-120AC	208	21-105K Ω
220-120AC	220	22-110K Ω
230-120AC	230	23-115K Ω
240-120AC	240	23-115K Ω
380-120AC	380	$38-190$ K Ω
400-120AC	400	40 - 200 Κ Ω
416-120AC	416	42-210K Ω
440-120AC	440	44-220K Ω
460-120AC	460	46-230K Ω
480-120AC	480	48-240K Ω
525-120AC	525	52-260K Ω
575-120AC	575	$57-285$ K Ω
600-120AC	600	$60\text{-}300\text{K}\Omega$
Noton		

Notes:

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