GARD

GADD MKIII

GADD

The I-Gard GADD MKIII is a modular Ground Alarm Indicator unit designed specifically for Ground Fault Indication and location, on Wye or Delta-connected, three-phase, three-wire, Ungrounded or High Resistance Grounded power systems. It may be used on systems up to any voltage with the use of 120V or 240V PTs.

An I-Gard Alarm Resistor unit (DDR2) is used to provide the GADD MKIII with a means to monitor the power system voltages to ground. This information is utilized by the GADD MKIII to determine and confirm whether a ground fault exists somewhere in the distribution system. This same information is also used to detect the occurrence of blown fuses that protect the phase lines connected to the Alarm Resistor unit itself.

the power to protect

Timely and reliable indication of faults prevents damage to equipment and eliminates health and safety risks to personnel. Unfortunately, the minimal three-lamp system (while meeting the minimum Code requirement) cannot reliably alarm and allows a single fault to remain unnoticed. The three-lamp system fails to prevent an arcing situation potentially resulting in the loss of a motor or a section of switchgear in the event of a second fault.

The GADD MKIII is designed to provide an alarm when a single ground fault occurs on a resistance grounded system, and to indicate on which phase the fault occurred.

When a second fault, on another phase, is incurred by the distribution system, the only limitations on the amount of ground current are the impedances of the faults and the ground circuit between them. Under this condition, extensive damage can occur, making it necessary to clear the first fault as soon as possible.

- Alarm on first fault at 50% of fault current
- Phase and fault magnitude indication
- Blown fuse indication
- Available for 120V, 240V, 480V and 600V systems

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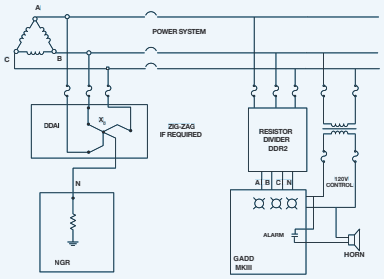
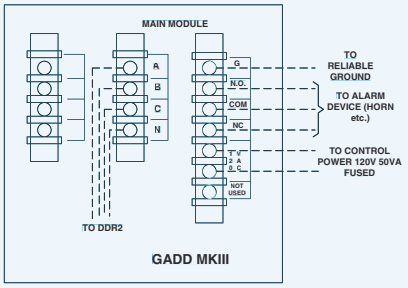
The prime advantage, of using the GADD MKIII GROUND ALARM INDICATOR unit is that the user is given early warning of ground faults, allowing time to locate and clear the fault to assure maximum service continuity.





Technical Specifications

Power Source	120V, 50/60 Hz, 50VA		
Maximum Ratings	Control Voltage	- 104-132V	
	Input Voltage	- A, B and C to G	240 rms
		- N to G	240 rms
Dielectric	Relay contacts to chassis	- 1500 Vrms for a min or 1800 Vrms for a sec.	
	Control terminals to chassis	- 1500 Vrms for a min or 1800 Vrms for a sec.	
	Note: Do not hi-pot test the unit. Refer to section 10 for details.		
Remote Alarm Relay Contacts	SPDT dry contacts	- 8 amperes resistive, 5 amperes inductive at 120/240 VAC	
		- 8 amperes resistive, 5 amperes inductive at 24 VDC	
Pick-up Settings	Main Module Alarm	- 50% of system ground current	
Alarm Time Delay	Main Module	- .5 sec. minimum	
Meter Range	0 to 100% of system let-through current		
Accuracy	Alarm Pick-up	- ±10% of system let-through current	
	Meter	- ±10% of system let-through current	
	Repeatability	- ±2%	
Temperature Range	0°C to 65°C		

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