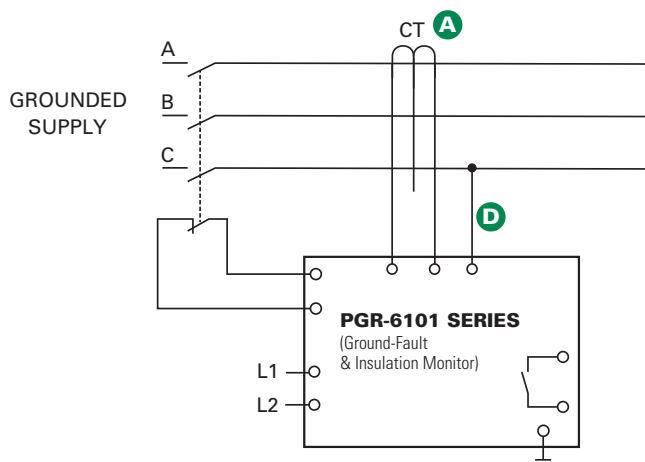


# PGR-6101 SERIES (GFR4001)

## Ground-Fault & Insulation Monitor



### Simplified Circuit Diagram



### Ordering Information

| ORDERING NUMBER | CONTROL POWER |
|-----------------|---------------|
| PGR-6101-120    | 120 Vac       |

| ACCESSORIES     | REQUIREMENT      |
|-----------------|------------------|
| PGC-5000 Series | Required         |
| PGH Family      | Required >1300 V |
| PGA-0500        | Optional         |
| PGA-0510        | Optional         |

For optional conformal coating please consult factory.

### Description

The PGR-6101 combines the features of a ground-fault protection relay and insulation monitor into one unit. It protects against ground faults by monitoring insulation resistance when the motor is de-energized and by monitoring ground-fault current when the motor is energized. The PGR-6101 features two separate analog outputs for optional current and ohm meters, and two separate alarm relays. It operates on one- or three-phase solidly grounded, resistance grounded and ungrounded systems up to 6 kV.

### Features & Benefits

| FEATURES                                        | BENEFITS                                                                                                      |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>Adjustable GF pickup (30-200 mA)</b>         | Trip setting provides a wide range of low-level protection and system coordination                            |
| <b>Adjustable insulation pickup (60-600 kΩ)</b> | Customizable insulation resistance setpoints for maximum protection                                           |
| <b>Adjustable time delay (50-250 ms)</b>        | Adjustable trip delay for quick protection and system coordination                                            |
| <b>Output contacts</b>                          | Two Form C output contacts for ground fault and insulation-resistance fault                                   |
| <b>Analog outputs (0-1 mA)</b>                  | Two analog outputs indicate insulation resistance and ground-fault current                                    |
| <b>CT-Loop monitoring</b>                       | Alarms when CT is not connected                                                                               |
| <b>Selectable contact operating mode</b>        | Selectable fail-safe or non-fail-safe operating modes allows connection to shunt or undervoltage breaker coil |

### Accessories

- A**  **PGC-5000 Series Ground-Fault Transformers**  
Required zero-sequence current transformer specifically designed for low level detection. Flux conditioner is included to prevent saturation.
- B**  **PGA-0500 Analog % Current Meter**
- C**  **PGA-0510 Analog Ohm Meter**  
Optional panel-mounted meters display ground-fault current as a percentage of the set-point and insulation resistance.
- D**  **PGH Family High Tension Couplers**  
Required (for systems >1,300 V) PGH Family high-tension coupler must be connected between the phase conductor and the PGR-6101.

### Specifications

#### IEEE Device Numbers

#### Input Voltage

#### Dimensions

#### Response delay

#### Contact Operating Mode

#### Harmonic Filtering

#### Test Button

#### Reset Button

#### CT-Loop Monitoring

#### Output Contacts

#### Analog Output

#### Approvals

#### Warranty

#### Mounting

Ground Fault (50G/N, 51G/N),  
 Ground detector (64), Alarm Relay (74)  
 See ordering information  
**H** 75 mm (3"); **W** 100 mm (3.9"); **D** 115 mm (4.5")  
 < 50 ms  
 Selectable fail-safe or non-fail-safe  
 Standard feature  
 Standard feature  
 Standard feature  
 Standard feature  
 Two Form C  
 0-1 mA  
 UL Listed (E183688)  
 5 years  
 DIN, Surface