

# PGR-4700 SERIES (RCD300M2)

## Sensitive Ground-Fault Relay



### Description

The PGR-4700 Sensitive Ground-Fault Relay provides sensitive ground-fault protection without nuisance tripping. It detects very low-level leakage current on large circuits to avoid or significantly reduce equipment damage. The leakages can be identified as they develop and ground faults can be detected before they become critical.

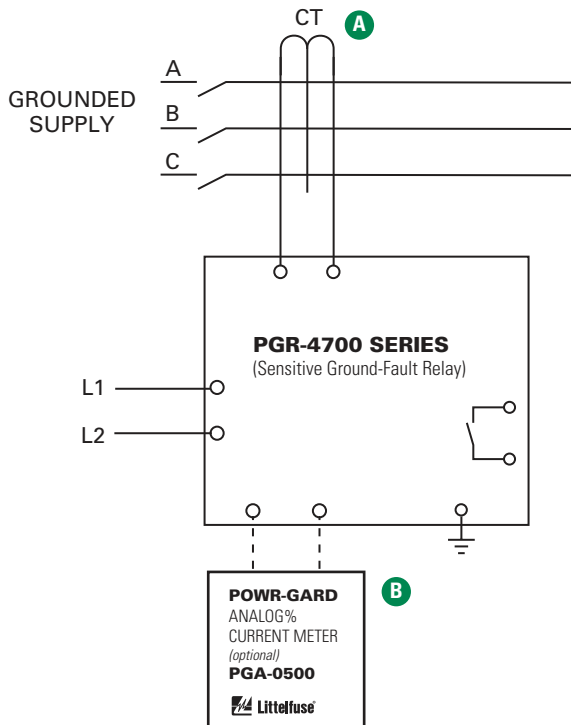
### Applications

Ground-fault relays can be used for the protection of critical circuits in panel boards and switch boards, OEM power distribution panels and custom controls. They are typically used in critical load applications with costly downtime and hazards, such as high humidity, water, dust, chemicals, and vibration.

### Features/Benefits

- Adjustable trip level settings from 10 mA to 3.0 A
- Advanced harmonic filtering
- Compatible with VFD applications
- Adjustable time delay
- Metering output with PLC interface for continuous monitoring of system
- CT loop monitoring

### Simplified Circuit Diagram



### Accessories

- A** **PGC-5000 Series Ground-Fault Transformer**  
Required zero-sequence current transformer specifically designed for low level detection. Flux conditioner is included to prevent saturation.
- B** **PGA-0500 Analog % Current Meter**  
Optional panel-mounted analog meter displays ground-fault current as a percentage of the set-point.

### Specifications

<b>IEEE Device Numbers</b>	50G, 50N, 51G, 51N
<b>Input Voltage</b>	See ordering information
<b>Dimensions</b>	<b>H</b> 75 mm (3.0"); <b>W</b> 55 mm (2.2"); <b>D</b> 115 mm (4.5")
<b>Trip Level Settings</b>	10 mA – 3.0 A
<b>Trip Time Delay Settings</b>	0–1.5 s
<b>Contact Operating Mode</b>	Selectable fail-safe or non-fail-safe (Internal switch)
<b>Harmonic Filtering</b>	Standard
<b>Test Button</b>	Standard
<b>Reset Button</b>	Standard
<b>CT Loop Monitoring</b>	Standard
<b>Relay Contacts</b>	2 Form C
<b>Communications</b>	Analog Output
<b>Conformally Coated</b>	Consult factory
<b>Approvals</b>	UL listed (E183688)
<b>Warranty</b>	5 Year
<b>Mounting</b>	DIN, Surface (Standard) Panel (with PMA-55 or PMA-60 adapter)

### Ordering Information

PGR-4700-24	24 Vdc Control Power
PGR-4700-120	120 Vac Control Power
PGR-4700-240 <sup>(1)</sup>	240 Vac Control Power

Notes: 1. Not available with UL