POWR-GARD® Protection Relays, Monitors & Systems
Ground-Fault Protection – Solidly Grounded System (PGR 4000 Family)

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

Specifications
IEEE Device Numbers: 50G, 50N, 51G, 51N
Input Voltage: See ordering information
Dimensions: H 75 mm (3.0”), W 55 mm (2.2”), D 115 mm (4.5”)
Trip Level Settings: 10 mA – 3.0 A
Trip Time Delay Settings: 0–1.5 s
Contact Operating Mode: Selectable fail-safe or non-fail-safe (Internal switch)
Harmonic Filtering: Standard
Test Button: Standard
Reset Button: Standard
CT Loop Monitoring: Standard
Relay Contacts: 2 Form C
Communications: Analog Output
Conformally Coated: Consult factory
Approvals: UL listed (E183688)
Warranty: 5 Year
Mounting: 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-4700-240 240 Vac Control Power

Notes: 1. Not available with UL

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

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