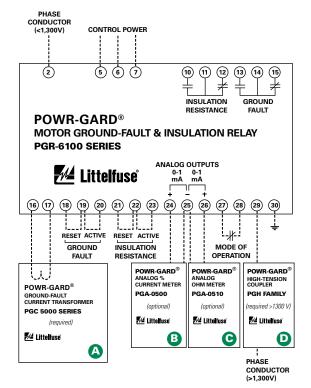
PGR-6100 SERIES (GFR4000)

Motor Ground-Fault & Insulation Relay



Wiring Diagram



Ordering Information

CATALOG/SYSTEM NUMBER	CONTROL POWER	VOLTAGE
PGR-6100-120	120 Vac	50-60 Hz, 5 VA
PGR-6100-240	240 Vac	50-60 Hz, 5 VA
ACCESSORIES	REQUIREMENT	PAGE
PGC-5000 Series	Required	38
PGH Family	Required >1300 V	42
PGA-0500	Optional	41
PGA-0510	Optional	41

Note: For optional conformal coating please consult factory.

Description

The PGR-6100 combines the features of a ground-fault motor-protection relay and insulation monitor into one unit. It protects against ground faults, both when the motor is energized (by monitoring the ground-fault current) and de-energized (by monitoring the insulation resistance). The PGR-6100 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

BENEFITS	
Trip setting provides a wide range of low-level protection and system coordination	
Customizable insulation resistance setpoints for maximum protection	
Adjustable trip delay for quick protection and system coordination	
Two Form C output contacts for ground fault and insulation-resistance fault	
Two analog outputs indicate insulation resistance and ground-fault current	
Alarms when CT is not connected	
Selectable fail-safe or non-fail-safe operating modes allows connection to shunt or undervoltage breaker coil	

Accessories



PGC-5000 Series Ground-Fault Transformers

Required zero-sequence current transformer specifically designed for low level detection. Flux conditioner is included to prevent saturation.



PGA-0500 Analog % Current Meter PGA-0510 Analog Ohm Meter

Optional panel-mounted meters display ground-fault current as a percentage of the set-point and insulation resistance.



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-3200.

Specifications

IEEE Device Numbers
Input Voltage
Dimensions
Response delay
Contact Operating Mode
Harmonic Filtering
Test Button
Reset Button
CT-Loop Monitoring
Output Contacts
Communications

Ground fault (50G/N, 51G/N), Alarm Relay (74) See ordering information

H 99.7 mm (3.9"); **W** 75 mm (3"); **D** 110 mm (4.3")

< 250 ms

Selectable fail-safe or non-fail-safe

Standard feature Standard feature Standard feature Standard feature Two Form C

Two Analog outputs 5 years

DIN, Surface

Warrantv

Mounting