

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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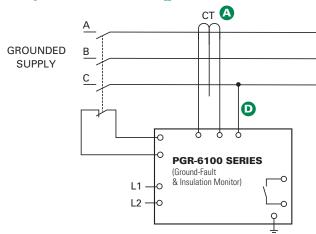


PGR-6100 SERIES (GFR4000)

Ground-Fault & Insulation Monitor



Simplified Circuit Diagram



Ordering Information

ORDERING NUMBER	CONTROL POWER
PGR-6100-120	120 Vac
PGR-6100-240 ⁽¹⁾	240 Vac (1)
ACCESSORIES	REQUIREMENT
PGC-5000 Series	Required
PGH Family	Required >1300 V
PGA-0500	Optional
PGA-0510	Optional

Note (1) - PGR-6100-240 ordering option is not UL Listed. For optional conformal coating please consult factory.

Description



The PGR-6100 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-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.



Mounting

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-6100.

Specifications IEEE Device Numbers

IEEE Device Numbers

Ground Fault (50G/N, 51G/N),
Ground detector (64), Alarm Relay (74)

Input Voltage

See ordering information

Dimensions H75 mm (3"); W 100 mm (3.9"); D 115 mm (4.5")

Response delay < 250 ms

Contact Operating Mode Selectable fail-safe or non-fail-safe

DIN, Surface

Harmonic Filtering Standard feature
Test Button Standard feature
Reset Button Standard feature
CT-Loop Monitoring Standard feature
Output Contacts Two Form C

Analog Output 0-1 mA
Approvals UL Listed (E183688) (1)
Warranty 5 years

Rev: 4-C-030614