

SE-601 SERIES (PGR-2601)

DC Ground-Fault Monitor



Simplified Circuit Diagram



Description


The SE-601 is a microprocessor-based ground-fault relay for ungrounded dc systems. It provides sensitive ground-fault protection without the problems associated with nuisance tripping. Ground-fault current is sensed using an SE-GRM Series Ground-Reference Module—a resistor network that limits ground-fault current to 25 mA. The SE-601 is used on ungrounded dc systems ranging from industrial 24-Vdc control circuits to 1000-Vdc solar and transportation systems.

Features & Benefits

| FEATURES | BENEFITS |
|--|--|
| Adjustable pickup (1-20 mA) | Ten settings provide a wide range of low-level protection |
| Adjustable time delay (50 ms-2.5 s) | Adjustable trip delay allows quick protection or delayed response |
| Output contacts | Form A and Form B output contacts for operation of separate annunciation and trip circuits |
| Analog output (0-5 V) | Provides means for connecting to a meter (PGA-0500) or a control system |
| Non-volatile trip Memory | Retains trip state when de-energized to simplify troubleshooting |
| Selectable contact operating mode | Selectable fail-safe or non-fail-safe operating modes allow connection to shunt or undervoltage breaker coil |
| Microprocessor based | No calibration required saves on maintenance cost |

Accessories

A  **SE-GRM Series Ground-Reference Module**
Required accessory, used to connect the SE-601 DC Ground-Fault Monitor to the DC bus.

 **PGA-0500 Analog % Current Meter**
Optional panel-mounted analog meter displays ground-fault current as a percentage of 22 mA.

Ordering Information

| ORDERING NUMBER | CONTROL POWER |
|-----------------|-----------------|
| SE-601-OU | 120/240 Vac/Vdc |
| SE-601-OD | 12/24 Vdc |
| SE-601-OT | 48 Vdc |
| ACCESSORIES | REQUIREMENT |
| SE-GRM SERIES | Required |
| PGA-0500 | Optional |
| PMA-55 | Optional |
| PMA-60 | Optional |

Note: For optional conformal coating please consult factory.

Specifications

| | |
|-------------------------------|--|
| IEEE Device Numbers | DC Overcurrent Relay (76G) |
| Input Voltage | See ordering information |
| Dimensions | H 75 mm (3.0"); W 55 mm (2.2"); D 115 mm (4.5") |
| Trip Level Settings | 1-20 mA |
| Trip Time Settings | 0.05-2.5 s |
| Output Contacts | Isolated Form A and Form B |
| Contact Operating Mode | Selectable fail-safe or non-fail-safe |
| Test Button | Local |
| Reset Button | Local and remote |
| Analog Output | 0-5 V |
| Conformally Coated | Consult factory |
| Approvals | CSA certified, UL Listed (E340889), CE (European Union), C-Tick (Australian) |
| Warranty | 5 years |
| Mounting | DIN, Surface (standard) Panel (with PMA-55 or PMA-60 adapter) |