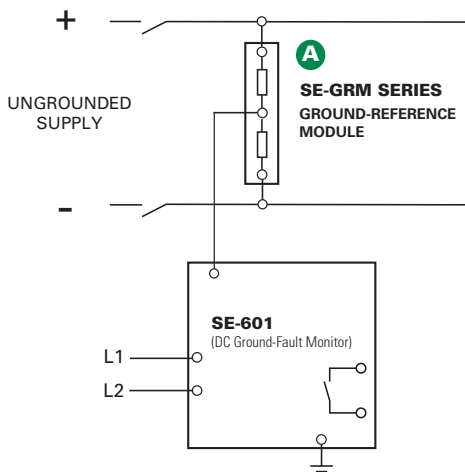


## SE-601 SERIES (PGR-2601)

### 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                                                                                                     |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Adjustable pickup (1-20 mA)</b>         | Ten settings provide a wide range of low-level protection                                                    |
| <b>Adjustable time delay (50 ms-2.5 s)</b> | Adjustable trip delay allows quick protection or delayed response                                            |
| <b>Output contacts</b>                     | Form A and Form B output contacts for operation of separate annunciation and trip circuits                   |
| <b>Analog output (0-5 V)</b>               | Provides means for connecting to a meter (PGA-0500) or a control system                                      |
| <b>Non-volatile trip Memory</b>            | Retains trip state when de-energized to simplify troubleshooting                                             |
| <b>Selectable contact operating mode</b>   | Selectable fail-safe or non-fail-safe operating modes allow connection to shunt or undervoltage breaker coil |
| <b>Microprocessor based</b>                | 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

|                               |                                                                              |
|-------------------------------|------------------------------------------------------------------------------|
| <b>IEEE Device Numbers</b>    | DC Overcurrent Relay (76G)                                                   |
| <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>    | 1-20 mA                                                                      |
| <b>Trip Time Settings</b>     | 0.05-2.5 s                                                                   |
| <b>Output Contacts</b>        | Isolated Form A and Form B                                                   |
| <b>Contact Operating Mode</b> | Selectable fail-safe or non-fail-safe                                        |
| <b>Test Button</b>            | Local                                                                        |
| <b>Reset Button</b>           | Local and remote                                                             |
| <b>Analog Output</b>          | 0-5 V                                                                        |
| <b>Conformally Coated</b>     | Consult factory                                                              |
| <b>Approvals</b>              | CSA certified, UL Listed (E340889), CE (European Union), C-Tick (Australian) |
| <b>Warranty</b>               | 5 years                                                                      |
| <b>Mounting</b>               | DIN, Surface (standard)<br>Panel (with PMA-55 or PMA-60 adapter)             |