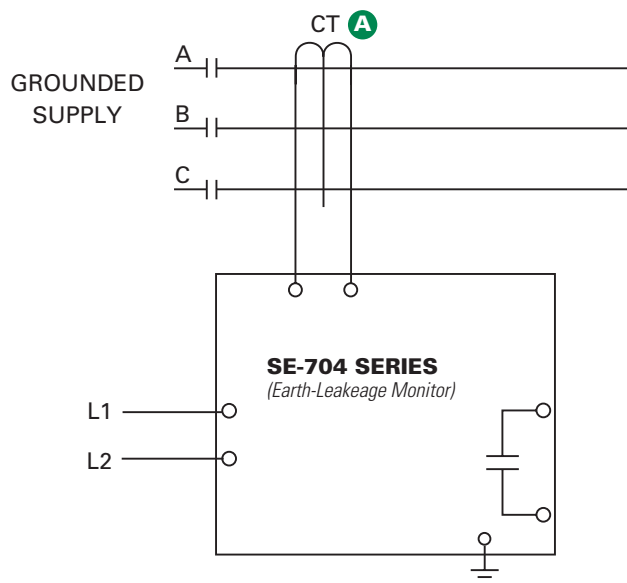


SE-704 SERIES

Earth-Leakage Monitor



Simplified Circuit Diagram



Ordering Information

| CATALOG/SYSTEM NUMBER | CONTROL POWER |
|-----------------------|----------------|
| SE-704-OD | 9-36 Vdc |
| SE-704-OT | 32-70 Vdc |
| SE-704-OU | 75-275 Vac/Vdc |

| ACCESSORIES | REQUIREMENT | PAGE |
|----------------|-------------|------|
| SE-CS30 Series | Required | 49 |
| PGA-0500 | Optional | 53 |
| PMA-55, PMA-60 | Optional | 51 |

Note: For optional conformal coating please consult factory.


Description


The SE-704 is a microprocessor-based ground-fault relay for resistance- and solidly-grounded systems. It offers very sensitive ground-fault detection as low as 10 mA and can be used on systems with significant harmonic content. The SE-704 provides feeder-level protection or individual-load protection. The output contacts can be connected for use in protective tripping circuits or in alarm indication circuits. The analog output can be used with a PLC or a meter.

Features & Benefits

| FEATURES | BENEFITS |
|--|---|
| Adjustable Pickup (10 mA-5 A) | Adjustable trip setting provides a wide range of low-level protection and system coordination |
| Adjustable Time Delay (30 ms-2.0 s) | Adjustable trip delay allows quick protection and system coordination |
| Output Contacts | Form A and Form B ground-fault output contacts for operation of separate annunciation and trip circuits |
| Analog Output (0-5 V) | Allows for connecting an optional meter (PGA-0500) or control system |
| CT-Loop Monitoring | Alarms when CT is not connected |
| Selectable Contact Operating Mode | Selectable fail-safe or non-fail-safe operating modes allows connection to shunt or undervoltage breaker coil |
| Harmonic Filtering | Eliminates nuisance tripping |
| Non-Volatile Trip Memory | Retains trip state when de-energized to simplify troubleshooting |
| Microprocessor Based | No calibration required saves maintenance cost |
| Universal Power Supply | Allows operation in application where one side of PT is faulted, provides flexibility for numerous applications |

Accessories

A  **SE-CS30 Series Ground-Fault Transformer**
Required zero-sequence current transformer specifically designed for low level detection. Flux conditioner is included to prevent saturation.

B  **PGA-0500 Analog % Current Meter**
Optional panel-mounted analog meter displays ground-fault current as a percentage of the set-point or 5 A.

For detailed wiring diagram, see page 79.

Specifications

| | |
|-------------------------------|--|
| IEEE Device Numbers | Ground fault (50G/N, 51G/N) |
| 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-5.0 A |
| Trip Time Settings | 30-2000 ms |
| Contact Operating Mode | Selectable fail-safe or non-fail-safe |
| Harmonic Filtering | Standard feature |
| Test Button | Standard feature |
| Reset Button | Standard feature |
| CT-Loop Monitoring | Standard feature |
| Output Contacts | Isolated Form A and Form B |
| Certification | CSA certified to US and Canadian standards, CE (European Union), C-Tick (Australian) |
| Analog Output | 0-5 V & 0-1 mA |
| Conformally coated | Consult factory |
| Warranty | 5 years |
| Mounting | DIN, Surface (standard) Panel (with PMA-55 or PMA-60 adapter) |