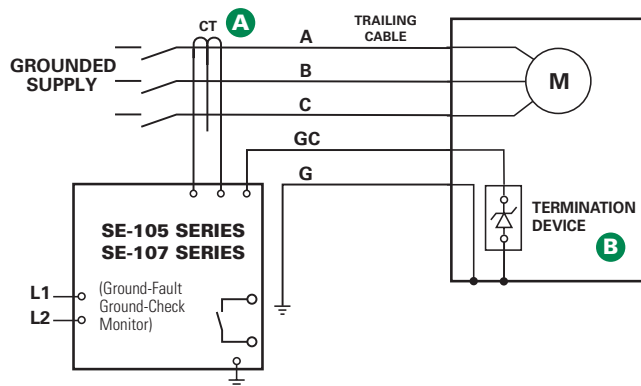


SE-105, SE-107 SERIES

Ground-Fault Ground-Check Monitor



Simplified Circuit Diagram



Ordering Information

| ORDERING NUMBER | CONTROL POWER |
|-----------------|---------------|
| SE-105 | 120 Vac |
| SE-105D | 120 Vac/Vdc |
| SE-105E | 240 Vac |
| SE-107 | 120 Vac |
| SE-107D | 120 Vac/Vdc |
| SE-107E | 240 Vac |

Consult manual online for additional ordering options.

| ACCESSORIES | REQUIREMENT |
|-------------------------|-------------|
| CT200 Series | Required |
| 1N5339B | Included |
| SE-TA6, SE-TA6-SM | Optional |
| SE-TA6A Series | Optional |
| RK-102, RK-105, RK-105I | Optional |
| RK-13 | Optional |
| PPI-600V | Optional |





Description

The SE-105/SE-107 is a combination ground-wire monitor and ground-fault relay for resistance-grounded systems. It continuously monitors the integrity of the ground conductor to protect portable equipment from hazardous voltages caused by ground faults. The SE-105/SE-107 is an excellent choice for trailing cables 5 kV and under in underground mining applications. For higher voltages or long-cable applications, see the SE-134C/SE-135.

Features & Benefits

| FEATURES | BENEFITS |
|--|--|
| Adjustable pickup (0.5, 2.0, 4.0 A) | Unit can be used on a wide variety of trailing cable applications |
| Adjustable time delay (0.1-2.0 s) | Adjustable trip delay for quick protection and system coordination |
| Harmonic filter | Prevents false operation |
| Zener-characteristic termination assembly | Provides reliable ground-check loop verification |
| Fail-safe ground-check circuit | Ensures ground-check circuit remains safe even in the event of equipment failure |
| Conformal coating | Additional coating protects circuit boards against harsh environment |
| SE-105: Selectable UV- or shunt-trip mode | Provides flexibility for different applications |
| SE-107: UV-trip mode only | Eliminates chance of unauthorized change to trip circuit |

Accessories

- A**  **CT200 Series Current Transformer**
Required CT detects ground-fault current.
- B**  **1N5339B Termination Device**
5 W axial-lead ground-check termination; included with SE-105/SE-107.
-  **SE-TA6 Termination Assembly**
Optional termination assembly with convenient terminals and mounting holes
-  **SE-TA6-SM Stud-Mount Termination Assembly**
Optional 50 W ground-check termination that is robust and compact for submersible pumps. Wire lead simplifies installation.

Specifications

| | |
|-------------------------------|---|
| IEEE Device Numbers | Checking or Interlocking Relay (3GC), Ground Fault (50G/N, 51G/N) |
| Input Voltage | See ordering information |
| Dimensions | H 150 mm (5.9"); W 109 mm (4.3"); D 100 mm (4.0") |
| Trip Level Settings | 0.5, 2.0, 4.0 A |
| Trip Time Settings | 0.1-1.0 s |
| Contact Operating Mode | Selectable fail-safe or non-fail-safe (SE-105) Fail-safe only (SE-107) |
| Harmonic Filtering | Standard feature |
| Reset Button | Local and remote |
| Output Contacts | Isolated Form A |
| Approvals | CSA certified, UL Listed (E340889), C-Tick (Australian) |
| Conformally Coated | Standard feature |
| Warranty | 5 years |
| Mounting | Surface |