



**THE DATASHEET OF  
SE-135-10**

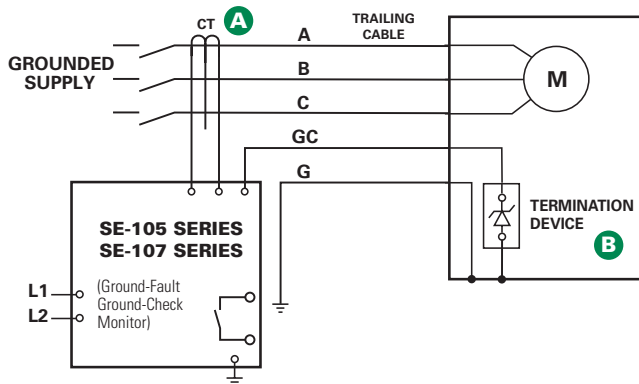


# SE-105, SE-107 SERIES

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

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

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