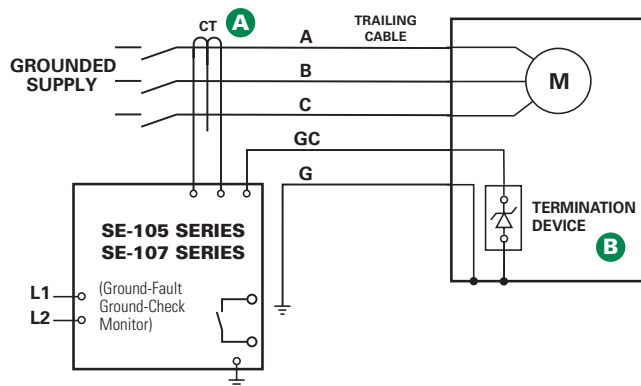


# SE-105, SE-107 SERIES

## 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



**CT200 Series Current Transformer**  
Required CT detects ground-fault current.



**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) 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