



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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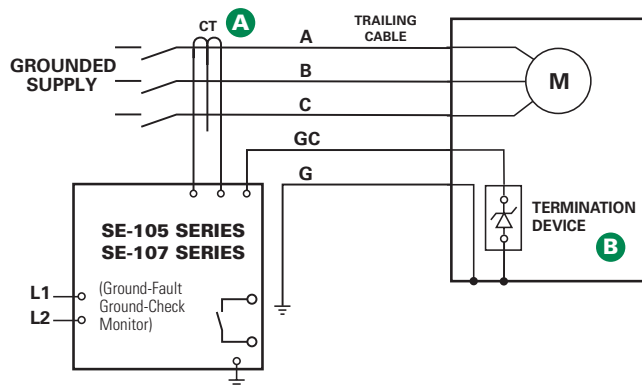


# SE-105, SE-107 SERIES

## 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