Protection Relays & Controls

Trailing Cable Protection–Ground-Fault Ground-Check Monitoring

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

REQUIREMENT	
Required	
Included	
Optional	
	Required Included Optional Optional Optional 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



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

IEEE Device Numbers

Input Voltage Dimensions

Trip Level Settings Trip Time Settings Contact Operating Mode

Harmonic Filtering Reset Button Output Contacts Approvals

Conformally Coated Warranty Mounting

Checking or Interlocking Relay (3GC), Ground Fault (50G/N, 51G/N) See ordering information **H** 150 mm (5.9"); **W** 109 mm (4.3"); **D** 100 mm (4.0") 0.5, 2.0, 4.0 A 0.1-1.0 s Selectable fail-safe or non-fail-safe (SE-105) Fail-safe only (SE-107) Standard feature Local and remote Isolated Form A CSA certified, UL Listed (E340889), C-Tick (Australian) Standard feature 5 years Surface

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