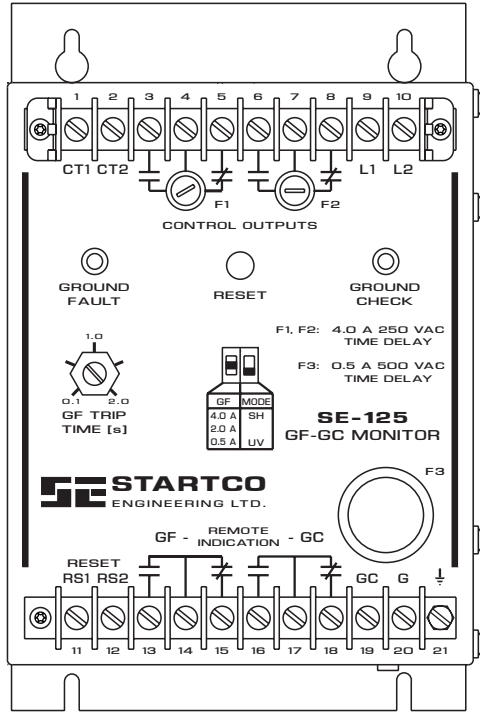


Recommended for replacement purposes only. Use SE-134 for new installations.



Manuals and additional information available at www.startco.ca

SE-125

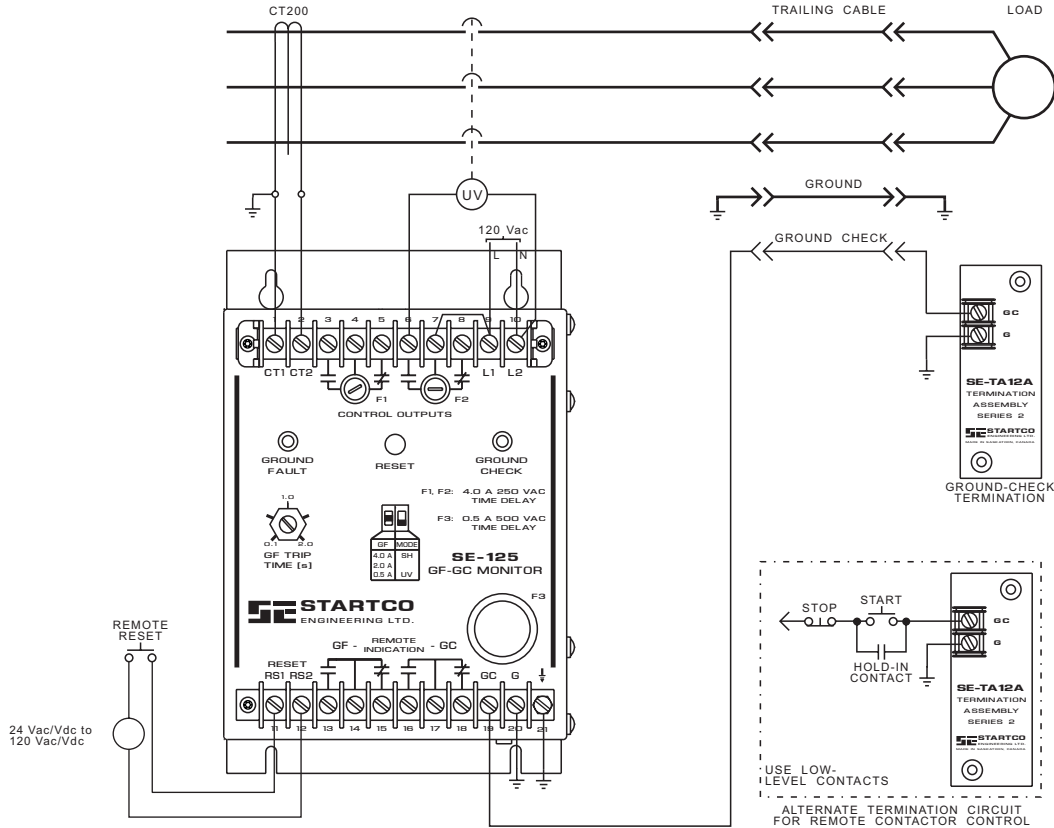
GROUND-FAULT GROUND-CHECK MONITOR

The SE-125 is a combination ground-fault and high-output, ground-check monitor for non-hazardous, resistance-grounded systems. The high-output, ground-check circuit is suitable for slip-ring or commutated-load applications. The ground-fault circuit is latching and the ground-check circuit is non latching. Two Form C output contacts are provided for contactor control, or for shunt or undervoltage operation in a breaker trip circuit. Two Form C contacts are provided for remote indication.

Ground-fault current is sensed by a CT200 series window-type current transformer with a 5-A secondary. A trip level of 0.5 A, 2.0 A, or 4.0 A is switch selectable for use with a 5-A, 15-A, or 25-A grounding resistor. This corresponds to 0.25%, 1.0%, or 2.0% of the primary rating of the current transformer. Trip time is adjustable from 0.1 to 2.0 seconds.

The SE-125 ground-check circuit recognizes the SE-TA12A's 12-volt Zener characteristic as a valid end-of-line completion. This is the only passive characteristic that will satisfy the ground-check circuit's multi-level drive, allow induced currents to circulate in the ground-check loop, survive a phase-to-ground-check fault, and clamp the ground-check voltage during the fault.

TYPICAL APPLICATION



TECHNICAL SPECIFICATIONS

Supply: 120 Vac or 240 Vac (+10%, -40%), 50/60 Hz, 20 VA

Dimensions:
 Height 216 mm (8.5")
 Width 146 mm (5.8")
 Depth 104 mm (4.1")

Environment:
 Operating Temperature -40°C to 60°C
 Storage Temperature -55°C to 80°C

Control Output Relay:
 Contact Rating 1 mA to 4 A Resistive, 240 Vac or 28 Vdc, 2 Form C
 Fuse Rating (F1 and F2) 4.0 A, 250 Vac, Time Delay
 Fuse Part Number Bussman MSL-4 or Littelfuse 313.004
 Operating Mode UV (Undervoltage/Fail-Safe) or SH (Shunt Trip/Non-Fail-Safe)

Ground-Fault Circuit:
 CT Ratio 200:5
 Trip Level* 0.5 A, 2.0 A, or 4.0 A
 Trip Time 0.1 s to 2.0 s Adjustable
 Thermal Withstand* 200 A Continuous
 2500 A for 2 s
 Trip-Level Accuracy +10%, -20%
 Trip-Time Accuracy ± 10%
 Operating Mode Latching

* Currents referred to primary of CT200 or CT200L for prospective ground-fault currents less than 4000 A.

Ground-Check Circuit:
 Open-Circuit Voltage 24 Vdc
 Output Impedance 88 Ω
 Nominal Loop Current 125 mA
 Induced ac Withstand 25 Vac Continuous
 120 Vac for 5 s
 Fuse (F3) 0.5 A, 500 Vac, Time Delay
 Fuse Part Number Bussman FNQ-1/2
 Pull-in Time 1.5 s
 Trip Time 0.2 s (GC open)
 0.5 s (GC to G short)
 Trip-Time Accuracy +10%, -30%
 GC-Loop Trip Resistance 25 ± 3 Ω
 Operating Mode Non-Latching

Remote Indication Relays:
 Contact Rating 1 mA to 500 mA Resistive, 120 Vac or 28 Vdc.
 Contact Configuration Form C

Isolated Remote Reset:
 Reset Voltage 24 Vac/Vdc to 120 Vac/Vdc
 Input Resistance 8.2 kΩ
 Isolation Voltage 300 Vac Continuous

ORDERING INFORMATION

SE-125 120-Vac Supply
 SE-125E 240-Vac Supply
 SE-TA12A 12-V Termination Assembly
 Ground-Fault CT's:
 CT200 56 mm (2.2") Window
 CT200L 89 mm (3.5") Window
 PPI-600V Parallel-Path Isolator

Specifications are subject to change without notice. Startco Engineering Ltd. is not liable for contingent or consequential damages, or for expenses sustained as a result of incorrect application, incorrect adjustment, or a malfunction.

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