



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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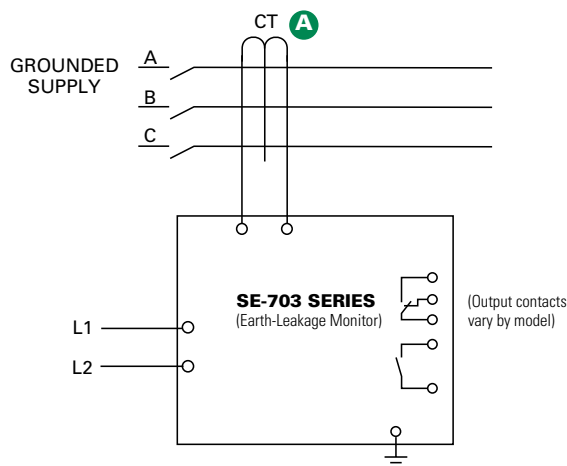


SE-703 SERIES

Earth-Leakage Monitor



Simplified Circuit Diagram



Ordering Information

| ORDERING NUMBER | CONTROL POWER |
|-----------------------------|-----------------|
| SE-703-OU | 120/240 Vac/Vdc |
| SE-703-OD | 12/24 Vdc |
| SE-703-OT | 48 Vdc |
| SE-703-03 | 24 Vac |
| SE-703-xx-00 ¹ | As above |
| SE-703-xx-02 ^{1,2} | As above |

| ACCESSORIES | REQUIREMENT |
|-----------------------|-------------|
| EFCT Series | Required |
| PGA-0500 | Optional |
| PMA-55 | Optional |
| PMA-60 | Optional |
| SE-EFVC Voltage Clamp | Optional |

NOTES:
1 Two Form C contacts. CSA and UL certification pending.
2 Selectable fail-safe/non-fail-safe operating modes (AS/NZS 2081:2002 compliant)

Description

The SE-703 is a microprocessor-based earth-fault relay for resistance- and solidly earthed systems. It offers sensitive earth-fault detection as low as 25 mA and can be used on systems with significant harmonic content. The SE-703 provides feeder-level protection or individual-load protection. The output contacts can be connected for use in protective tripping circuits or in alarm indication circuits. The analog output can be used with a PLC or a meter. The SE-703 is specifically designed to be AS/NZS 2081 compliant to either 2011 or 2002 (see ordering options).

Features & Benefits

| FEATURES | BENEFITS |
|--|---|
| Adjustable pickup (25-500 mA) | Adjustable trip setting provides a wide range of low-level protection and system coordination |
| Adjustable time delay (INST-500 ms) | Adjustable trip delay allows quick protection and system coordination |
| Output contacts | Form A and Form B or 2 Form C ground-fault output contacts for operation of separate annunciation and trip circuits |
| Analog output (0-5 V) | Allows for connecting an optional meter (PGA-0500) or control system |
| CT-Loop monitoring | Alarms when CT is not connected |
| Contact operating mode | Fail-safe operating mode for undervoltage applications, optional non-fail-safe mode available |
| Harmonic filtering | Eliminates nuisance tripping |
| Non-volatile trip memory | Retains trip state while de-energized to simplify troubleshooting |
| Microprocessor based | No calibration required, saves maintenance cost |
| Universal power supply | Allows operation in application where one side of PT is faulted, provides flexibility for numerous applications |

Accessories

- A EFCT Series Ground-Fault Current Transformer**
Required zero-sequence current transformer specifically designed for low-level detection.
- PGA-0500 Analog % Current Meter**
Optional panel-mounted analog meter displays ground-fault current as a percentage of the set-point or 5 A.
- PMA-60 Series – Mounting Adapter**
Required when panel mounting for AS/NZS 2081:2011 compliance

Specifications

| | |
|-------------------------------|--|
| IEEE Device Numbers | Ground fault (50G/N, 51G/N) |
| Input Voltage | See ordering information |
| Dimensions | H 75 mm (3.0"); W 55 mm (2.2"); D 115 mm (4.5") |
| Trip Level Settings | 25-500 mA |
| Trip Time Settings | INST-500 ms |
| Contact Operating Mode | Fail-safe unless noted |
| Harmonic Filtering | Standard feature |
| Test Button | Standard feature |
| Reset Button | Standard feature |
| CT-Loop Monitoring | Standard feature |
| Output Contacts | Isolated Form A and Form B unless noted |
| Approvals | CSA certified, UL Listed (E340889), CE (European Union), RCM (Australian) unless noted |
| Compliance | AS/NZS 2081:2011 unless noted |
| Analog Output | 0-5 V |
| Conformally coated | Yes |
| Warranty | 5 years |
| Mounting | DIN, Surface (standard) Panel (with PMA-55 or PMA-60 adapter) |