Neutral-Grounding-Resistor Monitor

**Description**

The SE-325 Neutral-Grounding-Resistor Monitor is used on resistance-grounded systems up to 25 kV to monitor the integrity of the neutral-to-ground path and to detect ground faults. It measures current and voltage in a transformer or generator neutral-to-ground connection and continuity of the neutral-grounding resistor (NGR). The SE-325 coordinates these three measurements to detect a loose connection, corrosion, ground fault, or NGR failure, and provides one alarm or trip output contact.

**Features & Benefits**

<table>
<thead>
<tr>
<th>FEATURES</th>
<th>BENEFITS</th>
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</thead>
<tbody>
<tr>
<td>Continuous NGR monitoring</td>
<td>Detects resistor failure within seconds, reduces transient-overvoltage risk, removes risk of ground-fault detection failure</td>
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<tr>
<td>Ground-fault Detection</td>
<td>Main or backup protection to detect a ground fault anywhere on the monitored system</td>
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<td>Adjustable pickup (0.5 - 4 A)</td>
<td>Select greatest sensitivity without false operation</td>
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<tr>
<td>Adjustable time delay (0.1 - 2 s)</td>
<td>Adjustable trip delay allows system coordination</td>
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<tr>
<td>Output contacts</td>
<td>Form A output contact</td>
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<tr>
<td>Selectable contact operating mode</td>
<td>Selectable fail-safe or non-fail-safe operating modes allows connection to shunt or undervoltage breaker coil or alarm system</td>
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**Accessories**

**ER Series Sensing Resistor**
Required interface between the power system and the SE-325. Eliminates hazardous voltage levels at the monitor.

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

**RK Series Remote Indication and Reset**
Optional panel-mounted remote indication and reset assemblies. Available in NEMA 1 or NEMA 4 configurations.

**Specifications**

- **IEEE Device Numbers**: Ground Fault (50G/N, 51G/N), Overvoltage (59N), Lockout Relay (86), Checking Relay (3)
- **Input Voltage**
  - See ordering information
- **Dimensions**
  - H 150 mm (5.9”); W 109 mm (4.3”); D 100 mm (4.0”)
- **GF Trip Level Settings**
  - 0.5 - 4.0 A
- **GF Trip Time Settings**
  - 0.1 - 2.0 s
- **RF Trip-Level Settings**
  - 20 - 400 Vac (<5 kV systems)
  - 100 - 2,000 Vac (>5 kV systems)
- **Contact Operating Mode**
  - Selectable fail-safe or non-fail-safe
- **Reset Button**
  - Standard feature
- **Output Contacts**
  - Form A
- **Approvals**
  - CSA certified, UL Listed (E340889), C-Tick (Australian)
- **Conformally coated**
  - Standard feature
- **Warranty**
  - 5 years
- **Mounting**
  - Surface

**Ordering Information**

<table>
<thead>
<tr>
<th>ORDERING NUMBER</th>
<th>CONTROL POWER</th>
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<tbody>
<tr>
<td>SE-325</td>
<td>120 Vac</td>
</tr>
<tr>
<td>SE-325D</td>
<td>120 Vac/Vdc</td>
</tr>
<tr>
<td>SE-325E</td>
<td>240 Vac</td>
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</table>

Consult manual online for additional ordering options.