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>
</tr>
<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