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>
</tr>
</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>
</tr>
<tr>
<td>Ground-fault Detection</td>
<td>Main or backup protection to detect a ground fault anywhere on the monitored system</td>
</tr>
<tr>
<td>Adjustable pickup (0.5 - 4 A)</td>
<td>Select greatest sensitivity without false operation</td>
</tr>
<tr>
<td>Adjustable time delay (0.1 - 2 s)</td>
<td>Adjustable trip delay allows system coordination</td>
</tr>
</tbody>
</table>

Output contacts: Form A output contact

Selectable contact operating mode: Selectable fail-safe or non-fail-safe operating modes allows connection to shunt or undervoltage breaker coil or alarm system

Accessories

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

**B** 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)

See ordering information

**Input Voltage**

**Dimensions**

**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**

**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

Consult manual online for additional ordering options.

Littelfuse.com/se-325