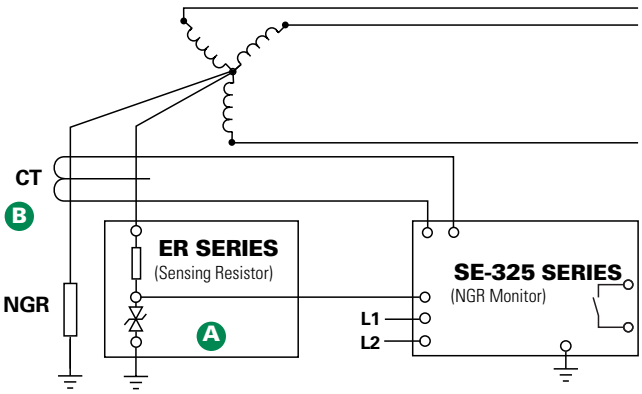
# SE-325 SERIES (PGM-8325)

## Neutral-Grounding-Resistor Monitor


## Simplified Circuit Diagram




## Ordering Information

| ORDERING NUMBER | CONTROL POWER |
|---|---|
| SE-325 | 120 Vac |
| SE-325D | 120 Vac/Vdc |
| SE-325E | 240 Vac |

Consult manual online for additional ordering options.

| ACCESSORIES | REQUIREMENT |
|---|---|
| CT200 Series | Required |
| ER Series | Required |
| SE-MRE-600 | Optional |
| RK-325, RK-325I, RK-302 | Optional |
| RK-13 | Optional |
| NGRM-ENC | Optional |

## 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

| FEATURES | BENEFITS |
|---|---|
| **Continuous NGR monitoring** | Detects resistor failure within seconds, reduces transient-overvoltage risk, removes risk of ground-fault-detection failure |
| **Ground-fault Detection** | Main or backup protection to detect a ground fault anywhere on the monitored system |
| **Adjustable pickup (0.5-4 A)** | Select greatest sensitivity without false operation |
| **Adjustable time delay (0.1-2 s)** | Adjustable trip delay allows system coordination |
| **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) |
| **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)<br>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 |