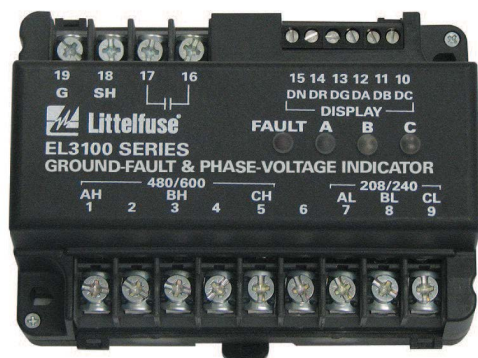
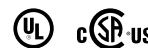


# Protection Relays & Controls

## EL3100 SERIES

Ground-Fault Protection – Grounded/Ungrounded AC •  
Systems Ground-Fault & Phase-Voltage Indicator



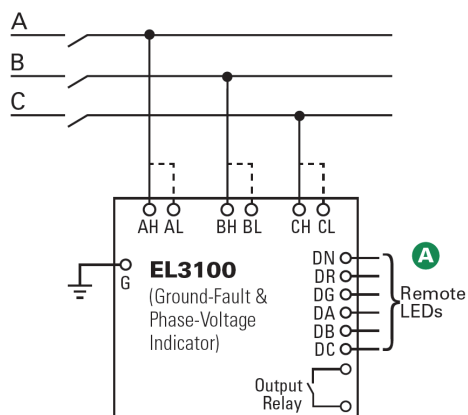
### Description

The EL3100 is a self-powered ground-fault and phasevoltage indication system for 3-phase systems. The EL3100 meets the National Electrical Code (NEC) and the Canadian Electrical Code (CE) requirements for ground detectors for ungrounded alternating-current systems. Voltage connections are provided on the EL3100 for 208, 240, 480, and 600-V systems. Three green LED's on the EL3100 indicate the presence of phase-to-ground voltage and one red LED indicates a ground fault. The EL3100 can operate stand-alone or with up to five remote LED indicators. A solid-state relay output provides indication of a ground fault. The output relay is closed when the 3-phase neutral voltage shifts as the result of ground leakage.

### Features & Benefits

| FEATURES                          | BENEFITS                                                                                                                                      |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NEC® and CE Code compliant</b> | Meets National Electrical Code (NEC®) Article 250.21 and Canadian Electrical Code Part 1, Rule 10-400 (2) requirements for ungrounded systems |
| <b>Low-voltage remote LEDs</b>    | System voltage is not present at the remote LED location                                                                                      |
| <b>Phase-voltage indication</b>   | Indicates the presence of voltage on both grounded and ungrounded systems                                                                     |
| <b>Output relay</b>               | Allows for remote ground-fault indication                                                                                                     |

### Simplified Circuit Diagram



# Protection Relays & Controls

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### Accessories

A



#### Remote LEDs

High-intensity 16-mm IP67 LED lamps  
available in red and green colors.

### Specifications

|                           |                                                                                  |
|---------------------------|----------------------------------------------------------------------------------|
| <b>Input Voltage</b>      | Input L: 208/240 Vac<br>Input H: 480/600 Vac                                     |
| <b>Dimensions</b>         | <b>H</b> 87.0 mm (3.43")<br><b>W</b> 112.5 mm (4.43")<br><b>D</b> 56.0 mm (2.2") |
| <b>Approvals</b>          | CSA certified, UL Listed (E340889)                                               |
| <b>Conformally Coated</b> | Standard feature                                                                 |
| <b>Warranty</b>           | 5 years                                                                          |
| <b>Mounting</b>           | DIN, Surface                                                                     |

### Ordering Information

| ORDERING NUMBER | MOUNTING     | ACCESSORIES | REQUIREMENT |
|-----------------|--------------|-------------|-------------|
| EL3100-00       | DIN, Surface | RK-310X-0Y  | Optional    |

Note: X=R for red LED and G for green LED  
Y=0 for no label and 1 for a ground-fault label

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