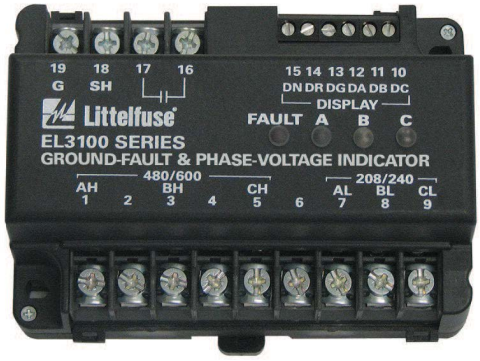
Protection Relays & Controls
EL3100 SERIES

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



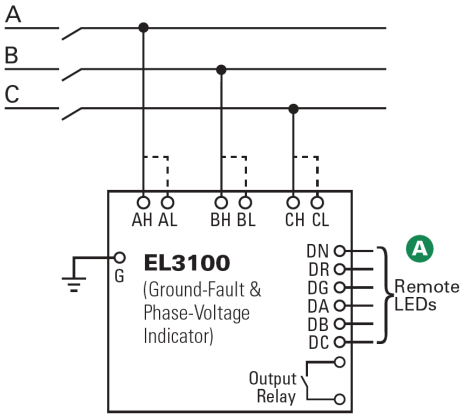
Description

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

Simplified Circuit Diagram



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Accessories

A

Remote LEDs

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

Specifications

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