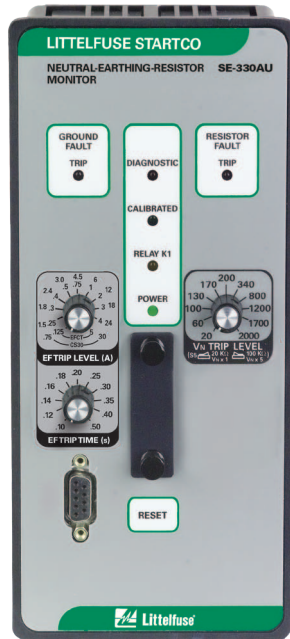
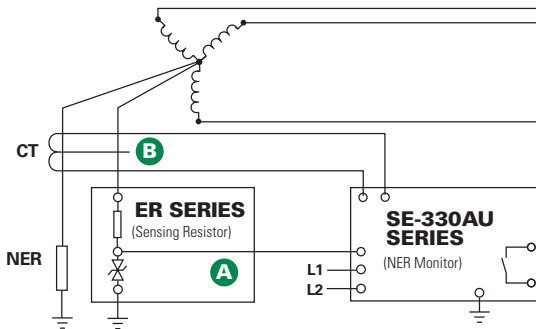


SE-330AU SERIES

Neutral-Earthing-Resistor Monitor



Simplified Circuit Diagram



Ordering Information

ORDERING NUMBER	COMMUNICATIONS	CONTROL POWER
SE-330AU-00-0X	RS-232	120/240 Vac/Vdc
SE-330AU-01-0X	RS-232 & DeviceNet™	120/240 Vac/Vdc
SE-330AU-02-0X	RS-232 & Profibus®	120/240 Vac/Vdc
SE-330AU-03-0X	RS-232 & EtherNet/IP & Modbus TCP	120/240 Vac/Vdc

NOTE: For 48 Vdc Control Power use part numbers SE-330AU-20-00, SE-330AU-21-00, SE-330AU-22-00 or SE-330AU-23-00 respectively.

ACCESSORIES	REQUIREMENT
ER Series Sensing Resistor	Required
Current Transformer	Required
SE-IP65CVR-G	Optional
SE-MRE-600	Optional
RK-332	Optional

Description

The SE-330AU is an advanced earth-fault and earthing-resistor monitoring relay for low- and medium-voltage transformers and generators. It monitors neutral current, neutral-to-earth voltage, and neutral-to-earth resistance. It provides continuous monitoring of the neutral-to-earth path to verify that the neutral-earthing resistor (NER) is intact. This is of utmost importance—an open NER renders current-sensing earth-fault protection inoperative and could result in a false belief that the system is functioning properly. The SE-330AU earth-fault function complies with AS/NZS 2081.3:2002. Outputs include four relay outputs, an analog output, and an RS-232 interface. Network communications options are available. For non-AS/NZS 2081 applications, see the SE-330 or SE-330HV.

Resistor Monitoring

The SE-330AU combines the measured values of resistance, current, and voltage to continuously determine that the NER is intact. It is able to detect a resistor failure with or without an earth fault present. Sensing resistors are matched to the system voltage and are used to monitor NGRs on systems up to 35 kV.

Earth-Fault Monitoring

The SE-330AU uses a 5- or 30-A-primary current transformer to provide a pickup-setting range of 0.125 to 5 A or 0.75 to 30 A to comply with AS/NZS 2081.3:2002. DFT filtering ensures that false trips due to harmonic noise from adjustable-speed drives do not occur. Open-CT detection is provided.

Accessories

A



ER Series Sensing Resistor

Required interface between the power system and the SE-330AU. Eliminates hazardous voltage levels at the relay.

B



EFCT Series Earth-Fault Current Transformer

Sensitive earth-fault current detection (5 A primary).



SE-CS30 Series Earth-Fault Current Transformer

Sensitive earth-fault current detection (30 A primary).

Specifications

Input Voltage	80 to 265 Vac/Vdc or 36 to 72 Vdc
Dimensions	H 213 mm (8.4"), W 98 mm (3.9"), D 132 mm (5.2")
GF Trip-Level Settings	0.125 to 30 A
GF Trip-Time Settings	0.1 to 0.5 s
Vn Trip-Level Settings	20-2,000 Vac (≤5 kV systems) 100-10,000 Vac (>5 kV systems)
Output Contacts	Two Form A, Two Form C
Operating Mode	Fail-Safe
Harmonic Filtering	Standard feature
Reset	Front panel push button and remote input
Approvals	CSA certified; C-Tick (Australian)
Communications	RS-232; (standard) DeviceNet™, Profibus®, Ethernet (optional)
Analog Output	4-20 mA, self or loop powered
Conformal Coating	Standard feature
Warranty	5 years
Mounting	Panel, Surface (optional)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Littelfuse:

[SE-330AU-22-01](#) [SE-330AU-03-00](#) [SE-330AU-21-01](#) [SE-330AU-23-00](#) [SE-330AU-02-01](#) [SE-330AU-02-00](#) [SE-330AU-20-01](#) [SE-330AU-03-01](#) [SE-330AU-23-01](#) [SE-330AU-21-00](#) [SE-330AU-22-00](#) [SE-330AU-01-00](#) [SE-330AU-00-01](#) [SE-330AU-01-01](#) [SE-330AU-20-00](#) [SE-330AU-00-00](#)