



## el3 Earth Leakage Relay

### PRODUCT OVERVIEW

The el3 Earth Leakage Relay delivers next-generation protection for VVVF drives and fixed-speed circuits.

Designed and engineered in Australia, the el3 utilises advanced microprocessor technology to provide precise, reliable earth-leakage monitoring in demanding mining and industrial environments.

el3 is AS2011:2011 compliant.

### Key benefits include:

- High electrical immunity
- Fast installation and setup
- Advanced fault detection
- Full compatibility with m-tronix ELT3 toroids
- Compliant with key Australian and IEC standards

### FEATURES

- 16-bit microprocessor core
- Frequency ranges: 50–60 Hz (VSD Mode OFF) / 5–100 Hz (VSD Mode ON)
- Failsafe / non-failsafe selectable
- Latch / no-latch selectable
- EL toroid open-circuit monitoring
- Adjustable trip current
- Adjustable trip-delay time

### LED status indicators:

- Trip
- Warning
- Frequency
- Power / Open-circuit toroid

Additional features:

- Local or external latch reset
- Suitable for limited or unlimited neutral systems when used with the m-tronix ELT3 (1000T) toroid
- Separate control contacts provided
- Analogue output: 4–20 mA or 2–10 V

## ORDERING INFORMATION

Part Number	Description
A01312	EL3 Relay – 110–240 VAC
A01313	EL3 Relay – 24–48 VAC/DC

(Replace placeholder part numbers with correct A-series codes when available.)

## SPECIFICATIONS

### Supply:

Model	Min	Typ	Max	Unit
A01312	90	110	120	V AC
A01313	20	24	50	V AC/DC

**Power:** 3VA ±20%

**Operating Temp:** 0–60°C

### Earth Leakage Current Range:

- 30 mA – 20 A

### Trip Delay Time:

- 50 ms – 20 s

Various current and time ranges are available — contact m-tronix for additional options.

## Relay Contacts

- 5A 250 VAC (General)
- 5A 30 VDC (Resistive)
- 100 VA Max

## Enclosure

**Dimensions:** 75 mm (W) × 55 mm (H) × 110 mm (D)

### Material:

- High-impact resistant polycarbonate construction
- IP20 rating

**Mounting:** DIN rail

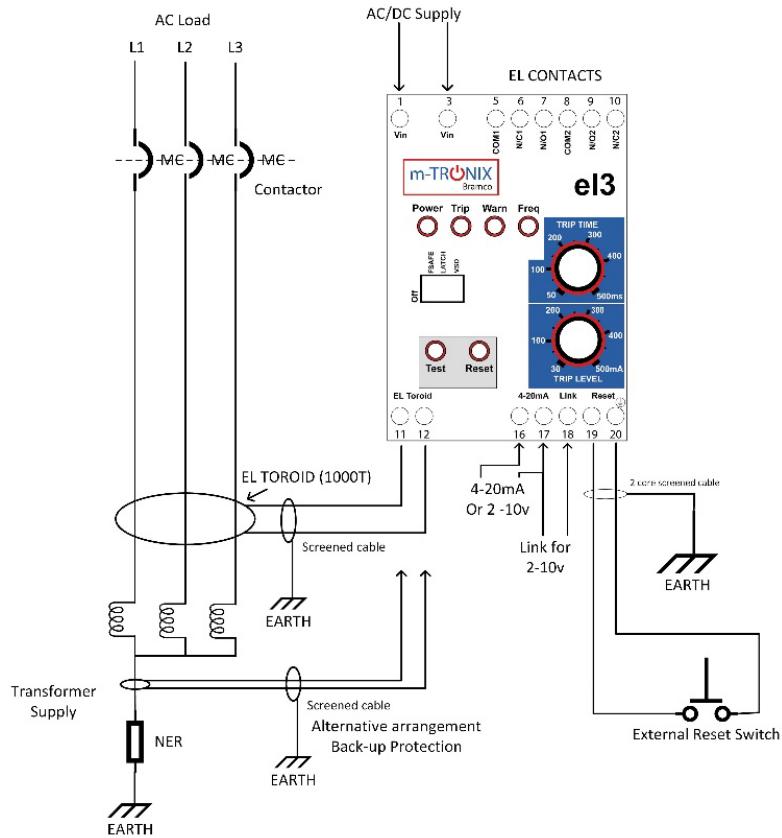
**Terminals:** Cage screw terminals

**Weight:** 216 g

## Certification

This product is designed and manufactured in accordance with ISO9001:2000 certified company standards.

It is compliant with AS2081:2011.



---

**m-tronix Pty Ltd**

[info@m-tronix.com.au](mailto:info@m-tronix.com.au) | +61 435 939 513 | [www.m-tronix.com.au](http://www.m-tronix.com.au)