



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

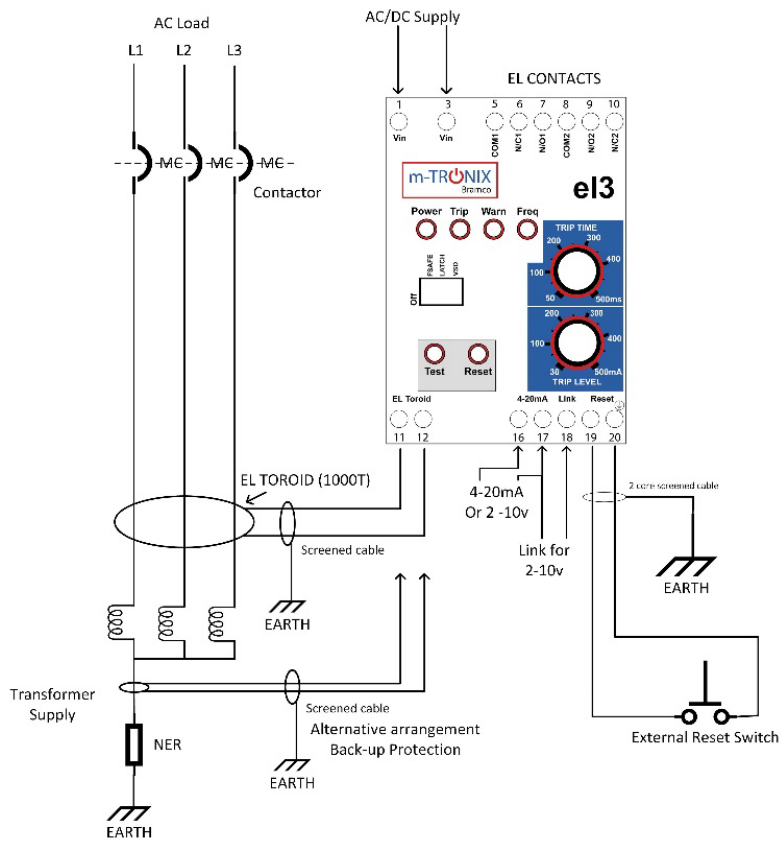
Terminals: Cage screw terminals

Weight: 216 g

Certification

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

It is compliant with AS2081:2011.



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