



Neutral Earth Resistance Monitor

Leaders in Innovative Protection Systems, Bramco's ne3 is **compliant** to the latest statutory and industry standards. The Bramco Neutral Earth relay (ne3) is a NER integrity protection device designed to continuously monitor the current limitation system on the secondary star point to earth connection of a supply transformer.

The unit can also be utilized to monitor a direct connection to earth from the star point. The ne3 monitors the NER Resistance integrity, excess phase voltage rise, with the ability to adjust trip times for protection coordination.

ne3 Features:

The ne3 connects directly to AC supply systems with line voltages up to 1100 Volt without any additional barrier assembly.

It can also be utilized on systems with line voltages up to 4160 Volt with the addition of a barrier assembly.

LED indication of Power On, NER integrity, Excess Voltage.

The unit is configured as fail safe and latch on fault

- Back up protection is provided by detecting voltage
- Trip Delay Times are individually adjustable for:
 - o NER integrity
 - o Over-voltage
- Adjustable excess voltage trip
- Adjustable NER resistance limits
- Reset push button input provided
- Time-stamped log of trip events
- Password protection for setting all parameters.

Mounting: • Convenient DIN Rail Mounting with screw terminals

Material: • High impact PVC housing

Communications:

- RS485 serial port Modbus ASCII / RTU

Specifications:

- Power Input:**
- 110-240VAC 50/60Hz
 - 24-48VAC 50/60Hz DC
- Voltage Tolerance:**
- -25% to +20%
- NER Resistance Values:**
- NER 10 to 650 ohms depending on system voltage and limiting current required
 - Consult the factory for your system needs
- NER trip value adjustment:**
- -50% to +100% (as required in **AS/NZS 2081:2011**)
 - 10% to +0%
- Trip Tolerance:**
- Trip Delay Timer:**
- 50 to 500 milliseconds for over-voltage
 - 2 to 10 seconds for NER integrity
- Excess Voltage Trip:**
- 5 - 50% phase voltage
- Relay Contacts:**
- 2 x contacts for NER/OV
 - 5A 250VAC (General)
 - 5A 30VDC (Resistive)
 - 100VA Max
- Operating Temperature:**
- 0 - 60° C
- Enclosure Dimensions:**
- 150mmW x 75mmH x 110mmD
- Material:**
- High impact resistant poly-carbonate
- Weight:**
- 900g



C = Complies to latest Standards





Neutral Earth Resistance Monitor

Ordering Information:

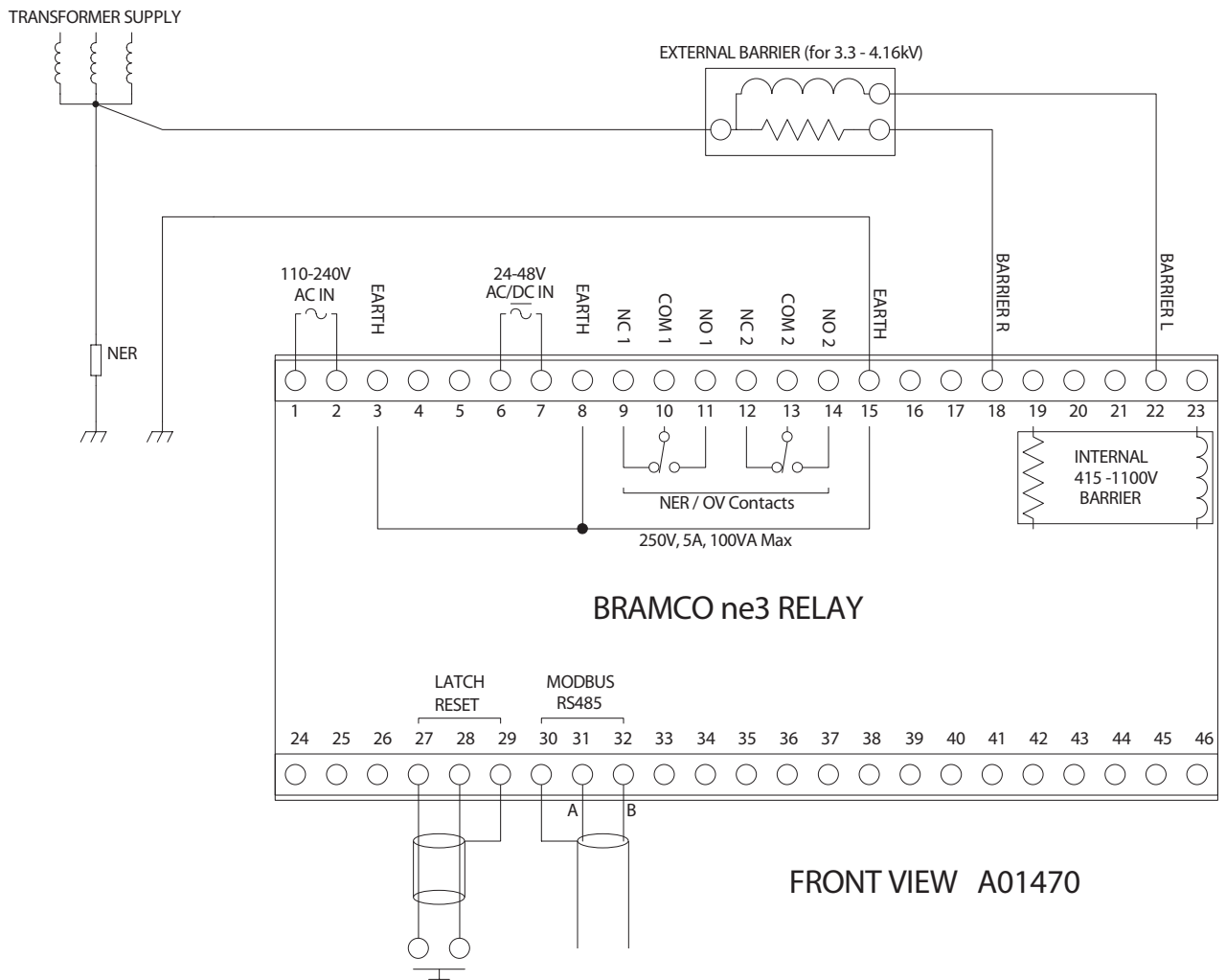
A01470 Neutral Earth Resistance Monitor - ne3
 A01447 Isolation Barrier 3.3KV

Compliance:

AS/NZS 2081:2011
 • Electrical Equipment for Mines
 • Electrical Protection Devices.

The ne3 comes with a 2 year warranty.

Connection Diagram:



Bramco Contacts:

19 Aruma Place
 Cardiff, NSW 2285
 AUSTRALIA

Telephone +61 2 4954 4721
 Email sales@bramco.com.au
 www.bramco.com.au

