



nIm3 - Neutral Link Monitor Features



Neutral Link Monitoring

A huge advance in NER integrity protection devices.

Leaders in Innovative Protection Systems, Bramco's nIm3 is compliant to the latest (and soon to be released) statutory and industry standards.

The Bramco Neutral Link Monitor relay (nIm3) is an advanced 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 is configured as fail safe and latch on fault.

Features include:

- Back up protection is provided by detecting voltage rise across the NER.
 - Intelligent next gen micro-processor controlled.
 - Advanced LCD display with user friendly menu drive adjustable:
 - Earth leakage current trip.
 - Excess voltage trip
 - NER resistance limits.
 - Earth leakage frequency response range selectable: 50 – 60Hz or 5 – 100Hz.
 - Open circuit toroid protection.
 - Reset push button input provided.
 - Password protection for setting all parameters.
- * Various models and configurations to suit multiple applications.

Compliance:

AS/NZ 2081:2002
– designed to meet the soon to be published 2081:2011

- Electrical Equipment for Mines.
- Electrical Protection Devices.



Newcastle Mining Expo!

Last month Bramco attended the Newcastle-Hunter Mining Expo, this proved to be a great opportunity to showcase some of our latest designs including:

- Next Generation eI3 and eIf3 Earth Leakage protection.
- Next Generation iC3 Earth Continuity Relay.
- Conveyor solutions.
- Industry leading BK400 Pullkey.

Bramco has numerous demonstration systems available which showcase our latest products including Protection Relays, Conveyor Control Systems, Signal Line Control and Monitoring Solutions.



Bramco looks forward to participating in product "road shows" and release functions in 2011.

At any time though, please feel free to contact Bramco for a visit and demonstration.

b3 Compliance

Leaders in innovative protection systems, Bramco's Earth Leakage family is compliant to relevant statutory and industry standards (including AS2081-pt3). Compliance documents are available for our valued customers.

- Designed to comply with the soon to be released new (revised) AS2081.
- Compliant with AS2081: 2002.
- Proven via independent industry testing to be far superior to competitor EL relays.
- Extremely competitively priced.
- Offering superior accuracy and consistency within 5%.
- Wide (adjustable) trip current and time.



Christmas Closure Notice

2010 proved to be another successful year for Bramco and we would like to take this opportunity to thank you for your continued support throughout the year. Gil, Mark, and the rest of the team at Bramco would like to wish you a Happy and Safe Christmas.

Our office will be closed from the 22nd December and will re-open on the 10th January 2011. If you require any assistance or support during this period please contact the following members of our team:

Technical Enquiries

Les Hollands Ph: 0418 685 903

les@bramco.com.au

Sales Enquiries

sales@bramco.com.au

Customers may leave contact details on the dedicated Bramco phone message service. These will be checked daily and returned.

Call: (+61) 2 4014 4444



Next Generation EL Range

el3 is an intelligent microprocessor based, versatile, earth fault protection module. It has been designed to detect earth current faults flowing in a power system and provide a timed tripping mechanism and excels on latest VVVF drive types. **Din-rail or screw down mounted.**



fel3 is an intelligent microprocessor based earth fault protection module. Utilising latest microprocessor technology the fel3 provides next generation EL protection to the latest VVVF drives. **Compact and fascia mounted.**



elf3 detects earth fault currents flowing in a power system and provides visual indication of earth leakage conditions. elf3 is specifically designed to protect systems supplying VVVF drives and provides extremely high immunity to converter noise and features a menu-driven set-up function and intelligent micro-processor control. **Fascia mounted.**



Model information – Bramco's E/L range – what do I need to order???

Our E/L range comprises:

New generation: We also offer the previous generation:

- el3
- elf3
- fel3
- iAB
- elf2

- If you are an existing iAB valued user, you can engage the new el3 as a replacement. To gain maximum benefit use our new generation 1000T Toroid.
- The same applies for existing elf2 users.
- The long serving Bramco iAB must use the legacy Toroid, the el3 must use the 1000-T Toroid. For use with the existing previous generation toroid, the iAB is now available with enhanced filtering for new style VVVF drives.
- The same applies for existing elf2 users.

Please contact the Bramco sales team for further information.



Partner Update Cristaudos Industrial Electrics



Tony Cristaudo has been a brilliant ally for Bramco customers for many years. His company Cristaudo Industrial Electrics (C.I.E) has been a Bramco Distributor since December 1997.

Recently, Tony and Mitch from CIE attended detailed product training on the latest releases from b3. Together, we reviewed industry development, latest statutory obligations, mandatory operating requirements etc. This was incredibly beneficial for both Bramco and CIE, as a result, we are ready to support all opportunities for the incredibly important CIE customer base.

CIE are manufacturers of high quality mining & industrial switchboards including switchboard refurbishment and maintenance. CIE supply electronic control and protection systems and offer a comprehensive range of industrial hire equipment.

Your qualified C.I.E team offers you on Bramco products:

- Electronic Power Distribution and Motor Protection Systems
- Individual Electronic Protection Relays
- Integrated Control and Management Systems
- Flexible Conveyor Line Electrical Control and Protection
- Conveyor / Signal Line Hardware
- Industrial Communication Systems

And together we provide:

- Design of products for specific needs
- Design of packages for individual applications
- Training both on-site or in-house
- On-site commissioning

Your C.I.E contacts are:

General Enquiries:
Tony & Mitch
Ph: +61 (0) 7 4035 5002
Mobile: +61 (0) 419 686 197
Fax: +61 (0) 7 4035 6308

