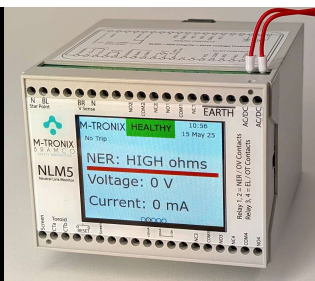




Exclusive Distributors of All
Bramco Products
40 Years of Unwavering Innovation



NLM5

Neutral Link Monitor

NLM5 - Neutral Link Monitor

Overview:

Leaders in Innovative Protection Systems, M-TRONIX NLM5 is compliant to the latest statutory and industry standards. The NLM5 provides next generation Neutral monitoring.

Application:

Leaders in Innovative Protection Systems, the Bramco m-Tronix's NLM5 is compliant to the latest statutory and industry standards.

The m-Tronix Neutral Link Monitor relay (NLM5) 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 NLM5 monitors the NER Resistance integrity, excess phase voltage rise, neutral earth leakage current, with the ability to adjust trip times for protection coordination.

Features:

NLM5 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. Earth Leakage Current is monitored in the neutral to earth circuit using an external EL toroid (Toroid not included).

LED indication of Power On, NER integrity, Excess Voltage and Earth Leakage current.

The unit is configured as fail safe and latch on fault.

- Back up protection is provided by detecting voltage rise across the NER

Trip Delay Times are individually adjustable for:

- Earth leakage
- NER integrity
- Over-voltage
- Adjustable earth leakage current trip
- Adjustable excess voltage trip
- Adjustable NER resistance limits
- Earth leakage frequency response range
- selectable: 50 – 60Hz or 5 – 100Hz
- Open circuit toroid protection
- Reset push button input provided
- Time-stamped log of trip events
- Password protection for setting all parameters.
- Touch Screen Display

Ordering Information:

MT01605 - Neutral Link Monitor – NLM5

MT01334 - 40mm Toroid 1000T (see factory for alternate sizes)

Specifications:

Supply:	MODEL	MIN	TYP	MAX	UNIT
	MT01605	20	24	50	V ac/dc

Power: 4VA +/-20%

Operating Temp: 0 – 60° C

Communications: RS485 serial port Modbus ASCII / RTU
(RS485 not implemented)

Instrumentation output: 4-20 ma or 2-10 volt

NER Resistance Values:

- NER 10 to 650 ohms depending on system voltage and limiting current required.
- Consult the factory for your system needs.

EL System Voltages: 415 /1100V - 240/635V phase

NER trip value adjustment: 50% to +100% (as required in AS/NZS 2081:2011)

Trip Tolerance: 10% to +0%

EL Current Range: 30-500mA

Trip Delay Timer:

- 50 to 500 milliseconds for over-voltage and earth leakage.
- 2 to 10 seconds for NER integrity

Excess Voltage Trip: 5 - 50% phase voltage

Relay Contacts:

- 2 pole changeover 5A 250V AC (100VA Max) for earth leakage
- 2 pole changeover 5A 250V AC (100VA Max) for over-voltage and NER integrity.

Enclosure

Dimensions: 75mmH x 100mmW x 109.5mmD

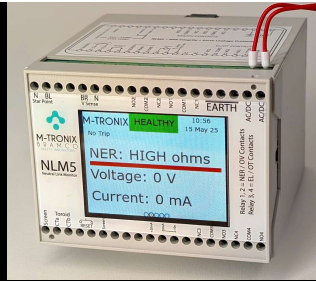
Material:

- High impact resistant polycarbonate construction
- IP20 Rating

Mounting: DIN rail

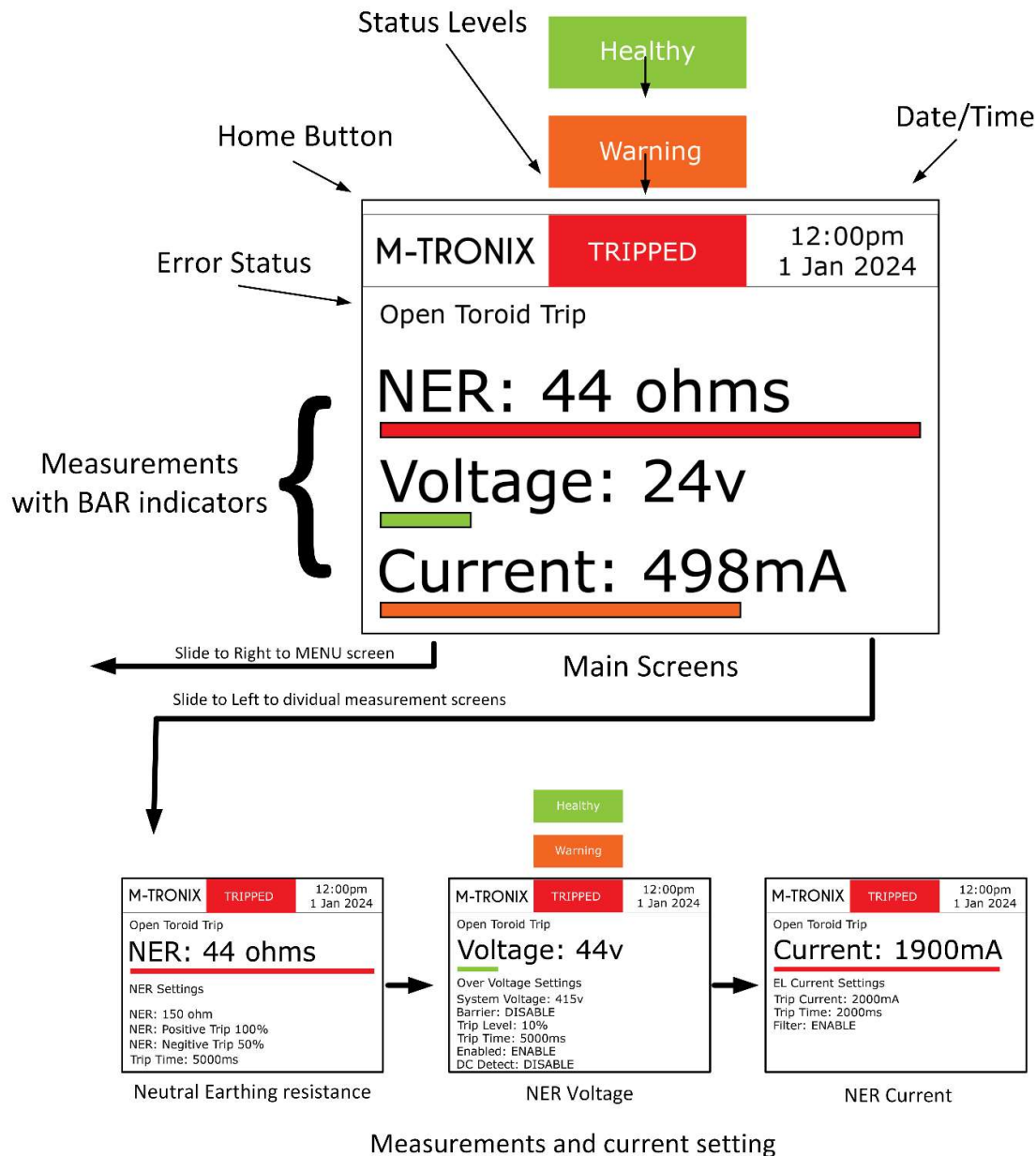
Terminals: Cage screw terminals

Weight: 575gms



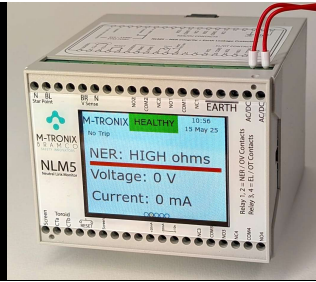
NLM5 screen layout

2.8" Touch Colour Display Panel





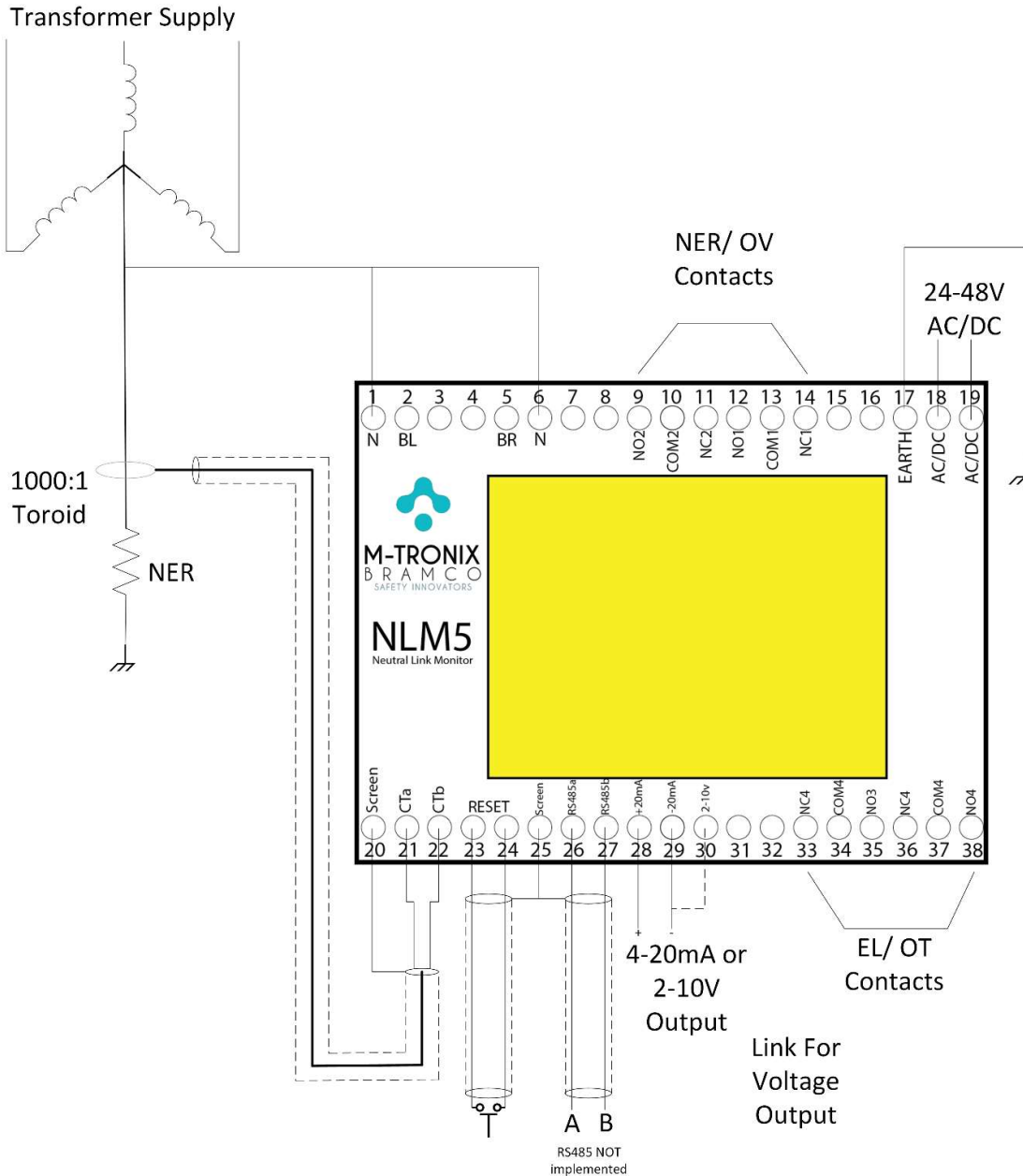
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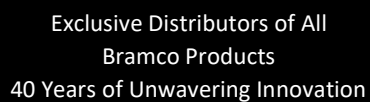


NLM5

Neutral Link Monitor

Typical Wiring Diagram





75mmH x 100mmW x 109.5mmD

