



# Live Line Monitor - LLM Module

## Application

The Bramco Live Line Monitor provides a remote visual display of the status of each phase of a 3 phase AC load circuit. This low voltage model allows for brighter LED display.

## Features:

The LLM Module is a compact, DIN or screw mounted, low power, three phase input device to provide visual indication of load phases being present.

The three load phases and Earth are connected to the LLM module.

The Remote Display Indicator is mounted on the door panel and connects to terminals on the LLM Module. The remote display module runs on extra low voltage supply, reducing risk of exposure to line voltage at the front panel.

## Normal:

- No AC - three phase LEDs should be Off.
- AC On - the three phase LEDs will be On.
- If any or all the LEDs are On, the circuit is alive.

## Switch Gear Fault:

- If any or all of the three phase LEDs are On, indicates a load phase not isolated.

## LEDs for:

- Phase A U
- Phase B V
- Phase C W

**Note:** Dual LEDs for each phase.

## Easy Installation:

Mount the LLM module close to the point of connection. Connect the 3 phase wires and the Earth Wire.

**Note:** For safety this earth **MUST** be fitted.

Fit the LLD Remote Display into 22.5mm hole provided on the panel fascia. Connect the Remote Display wiring to the LLM Display.

## Specifications

### A01247

**System Voltage -** 380 - 480vAC 50/60Hz  
**Phase Voltage -** 220 - 255vAC

**AC Voltage -** 500vAC 1 minute (PH to E)

**Phase Loading to Earth -** 50k Ohms at 50Hz

**DC Voltage -** 2000vDC 1 minute (Ph to E)

**Phase Loading to Earth -** 20M Ohms at DC.

- Local/Remote Display have dual LEDs for each phase.

- Remote Display Touch Potential - 24vDC maximum when earth is connected

**Operating Temperature -** 0 - 50°C

### Enclosure LLM Module

- 55W x 75H x 110D
- High impact resistant polycarbonate
- DinRail and screw mounting
- Cage screw terminals
- Weighs 250gms

### Enclosure Remote Display

- Panel cutout 22.5mm diameter
- Bezel 30mm diameter x 20mm projection
- Depth allow 90mm Min
- Connection through 2m x 4 cores cable
- Weighs 100gms

## Ordering Information

A01247 LLM Module 380 - 480vAC

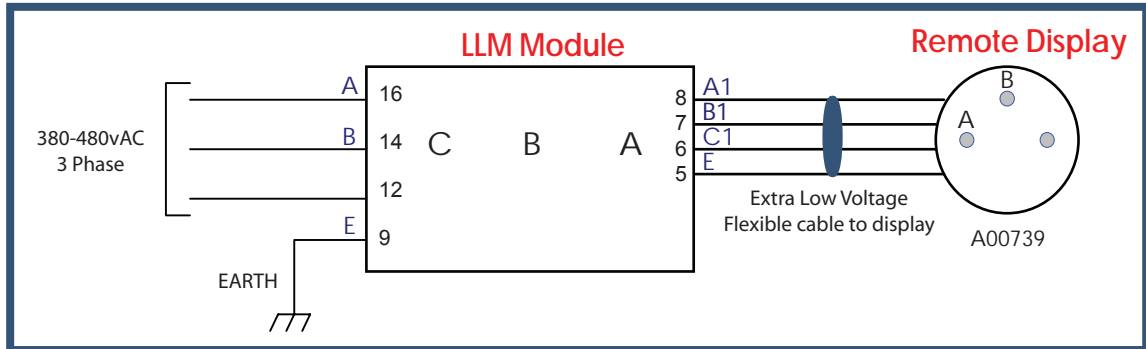
A00739 LLD Remote Display





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## Connection Details



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