DESCRIPTION

Sensorform EFI-MLZ-50 is one of a family of Earth Fault Indicator products that are designed to assist in the rapid location and isolation of faults on Medium Voltage networks in single-sided feed or open ring main systems. When an asymmetrical current greater than 50A in a 3-phase cable is detected an earth fault is indicated by means of a flashing LED (Light Emitting Diode) indicator.

A current sensor is fixed around the three phases of the cable system being monitored and will detect a current imbalance due to an earth fault. An earth fault trip is indicated by a flashing LED indicator on the unit, together with a second LED based Remote Indicator (optional). An auxiliary relay contact is also provided as an optional extra for signaling an alarm to other systems. In an open ring network the path of the fault current from the feeding point to the fault location is marked by the triggered EFI’s. The defective conductor segment is located between the last EFI that has been triggered and the first EFI which is still inactive.

FEATURES

- Powered from mains supply 110V - 240V AC
- Primary LED indicator
- Automatic reset when mains power is restored
- Manual reset by Test/Reset button on front panel
- CT100 Current Sensor (standard)
- CT150 Current Sensor (optional)
- CT300 Current Sensor (optional)
- LED based Remote Indicator (optional)
- Aux Relay contact for remote alarm generation (optional)
- Rugged design suitable for outdoor use

SPECIFICATIONS

General
- Power Source: 110-240V AC +/- 20% 50-60Hz
- Network Voltage Range: 1-3kV
- Trip Current: 50A ±10%
- Primary Indication: Flashing LED@1Hz
- Flashing Duration: 10 hours nominal
- Min. Fault Duration: 2.5 cycles
- Manual Reset: Push button on front panel
- Automatic Reset Period: 10 Seconds after mains restore
- Operating Temp. Range: -20 °C to +70 °C
- Operating Humidity Range: 0-100% RH
- Dimensions: 115mm x 65mm x 40mm
- Degree of Protection: IP65
- Mass: 250g
- Current Sensor Diameter:
  - Standard CT100: 100mm
  - Optional CT150: 150mm
  - Optional CT300: 300mm

Remote Indicator (optional)
- Indication Method: Flashing LED @ 1 Hz
- Flashing Duration: 5 hours nominal
- Dimensions: M12 Hex Bolt 50mm long

Auxiliary Relay (optional)
- Type: Latching, N/O on reset
- Rating: 220VDC, 250VAC, 2A
- Lead type: 2-core, 0.5mm² double Insulated
- Warranty Period: 2 Years

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