EFI.07 EARTH FAULT INDICATOR

EARTH-FAULT DETECTION AND SIGNALLING
FOR MEDIUM VOLTAGE CABLES

• ENCLOSURE STANDARD DIN 48 x 96 SUITABLE FOR PANEL MOUNTING.
• VISUAL LED LOCAL INDICATION WITH SELF TEST BY PUSHBUTTON.
• 4 RESET MODES: TIME-DELAY, 230Vac MAINS VOLTAGE, PUSHBUTTON AND REMOTE RESET.
• DIP SWITCHES SELECTABLE TRIP CURRENT (4 VALUES) AND DELAY FOR TIME RESET (4 VALUES).
• SCADA CONTACT FOR REMOTE SIGNALLING AND CONTROL.
• 10 YEARS BATTERY OPERATION. OVER 2500 FLASHING HOURS.
• EASY-TO-FIT CBCT RESIN SPLIT-TYPE CURRENT TRANSFORMER.
• (OPTION) EXTERNAL REMOTE INDICATOR OUTPUT.
• (OPTION) GSM/UMTS REMOTE CONTROL AND SCADA SIGNALLING.
EFI Earth-Fault Indicator device for earth-fault detection and signalling on medium voltage networks:

- Designed to be installed on MV cables up to 33kV (underground, switchgears, cells, etc.).
- Local and remote earth fault signalling by means of flashing LED and SCADA relay contact.
- Up to four levels of trip current, selectable by front dip switches (current values can be customer defined).
- Four reset modes: time-delay, 230Vac mains voltage, pushbutton reset and remote reset.
- Up to four time-delay values for automatic time reset, selectable by front dip switches (time-delay values can be customer defined).
- Up to four fault delay values for transient cancellation, selectable by front dip switches (delay values can be customer defined).
- Correct operation (test) can be checked pressing the pushbutton on the front.
- Self-powered by the internal lithium battery with 10 years lifetime and over 2500 flashing hours.
- Battery can be easily replaced with lithium 3,6V - ½ AA type (no soldering or tools required).
- Electronic module enclosed in standard DIN 48 x 96 box linked to the external current transformer CBCT.
- Split-type resin current transformer CBCT ring-type, composed by two halves that can be installed without MV cables disconnection and held together by metallic screw tie.
- Option: screw terminal output to drive the external flashing indicator (option).
The device continuously checks the earth current. When the selected trip level is exceeded for more than the selected delay time, the device trips: the LED starts flashing and the SCADA relay gives a pulse signalling, closing the contact for 500ms. If a second fault occurs when the EFI is already tripped, the SCADA contact will close again for 500ms to indicate that a second fault has occurred. The minimum fault duration (delay) time is designed to discriminate real faults from simple line transients.

**DEVICE TEST:** simply press the pushbutton when the device is not flashing. The EFI will start flashing and the SCADA relay will give a pulse signalling.

**DEVICE RESET:** After the device has tripped, it can be reset in the following ways:

- Pressing the pushbutton on the front.
- **TIME RESET:** the EFI will reset automatically when the selected preset time has elapsed.
- **REMOTE RESET:** closing the contact or remote pushbutton connected to the screw terminals.
- **230Vac MAINS RESET:** the EFI will reset when the mains 230Vac is back after the fault restoration. Simply connect this input to mains 230Vac voltage.

Note: in order to use this reset feature, the 230Vac voltage must disappear when the fault occurs, i.e. it must be cut off by the MV circuit breaker that breaks the faulty line, otherwise the EFI will reset immediately after the fault.

**OPTIONAL ACCESSORIES**

**LXI SERIES**

LAMP EXTERNAL INDICATORS

**BXI** BOLT EXTERNAL INDICATOR

- MOUNTING WALL
- M10 or M12 BOLT
- 5mm or 8mm RED LED INDICATOR
- TRANSPARENT PLASTIC BLOCK
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For further information please visit: [www.ceditnet.it](http://www.ceditnet.it)

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