

# Earth Leakage Relay

DIN rail mounting version



#### **GENERAL**

The ELR-3F, maintains all the basic characteristics of the DIN 96x96 mm series, although its reduced dimensions. It is the most simple of a serie of relays, built in a modular enclosure, according with DIN 43880 Standard, with a three modules width (module base 17.5 mm)

Its only two setting ranges allows to select the tripping current, in order that the contact voltage values are maintained below 50V as required by the CEI 64-8Standard. This is also the idoneous answer in many of the insdustrial requirements for a proper selectivity, whenever there are other ELR's or/and RCD's downstream or upstream in the line to be protected.

line to be protected. An outstanding characteristic of the present relays, is the permanent control of the Toroidal - ELR circuit. Its interruption brings along the immedate trip of the

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button. The instrument, fitted with filters at the input circuits, is practically immune to external disturbances, so as the pulse currents with dc components, complying with the requirements of VDE 0664 and project IEC 23 Standards. The ELR-3F has the possibility of an automatic or manual

The ELR-3F has the possibility of an automatic or manual reset, selectable by a microswitch and to protect the settings by its sealable transparent front cover.

This relay accepts also the possibility of a remote test.

It may also be coupled to any of our CT-1 Toroidal Transformers.

#### **MODELS**

ELR-3F = 110Vac/dc - 230 - 400 Vac ELR-3F = 24 - 48 Vac/dc

Option:

T = tropicalisation



1) Manual or automatic reset selection dipswitch.

2)Trippingc urrent selection dipswitch.

3) Tripping time selection dipswitch

4) Push button for Test

5) Push button for manual reset

- 6) Signalling red LED for relay tripped
- 7) Signalling green LED for Aux. Supply presence

# Earth Leakage Relay — ELR-3F



ELECTRICAL CHARACTERISTICS	
Auxiliary Voltage supply	24÷48 Vac/dc 110 Vac/dc 230 - 400 Vac ± 20%
Frequency	50-60Hz
Maximum consumption	3 VA
Current tripping ajustment range I N	0,3 or 0,5A
Tripping time adjustment range t	0,02 or 0,5 sec.
Output: 1 changeover contact	5A 250V
Working Temperature	-10 + 60°C
Storing Temperature	-20 + 80°C
Relative humidity	<90%
Insulation Test	2,5 kV 60 seg.
Standards	CEI 41-1 - IEC 255 - VDE 0664
Electromagnetic Compatibility	CEI-EN 50081-1 CEI-EN 50082-2
Wiring method	Screw terminals for cross section wires 2,5 mm2
Mounting according DIN 50022	Snap on DIN rail 35 mm
Protection degree according DIN 40050	lp20

## WIRING DIAGRAM



### DIMENSIONS



