

ELR-3F

EARTH LEAKAGE RELAY
DIN RAIL MOUNTING VERSION

MICROENER

GENERALITY



The **ELR-3F**, maintains all the basic characteristics of the ELR-3C type relay, with its reduced dimensions even. It is the most simple of a series of relays, built in a modular enclosure, according with DIN 43880 Standard, with a three modules width (module base 17.5 mm) Its two setting ranges (current 0,03 or 0,5A / time 0,02 or 0,5 seconds) allow 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 suitable answer in many of the industrial requirements for a proper selectivity, whenever there are other ELR's or/and RCD's down-

MODELS

ELR-3F	110Vca/cc-230-400Vca I Δ 0,03- 0,5A Δ t 0,02 - 5 sec.
ELR-3F	24-48Vca/cc I Δ 0,03- 0,5A Δ t 0,02 - 5 sec.

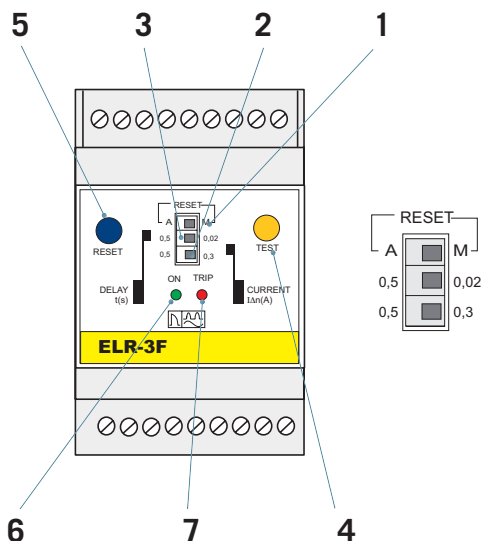
OPTIONS

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stream or upstream in the 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 immediate trip of the protection. This allows to identify the anomaly, without waiting to the periodical control, made with the Test push 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 reset, selectable by a micro switch and to protect the settings by its sealable transparent front cover.

LEGEND

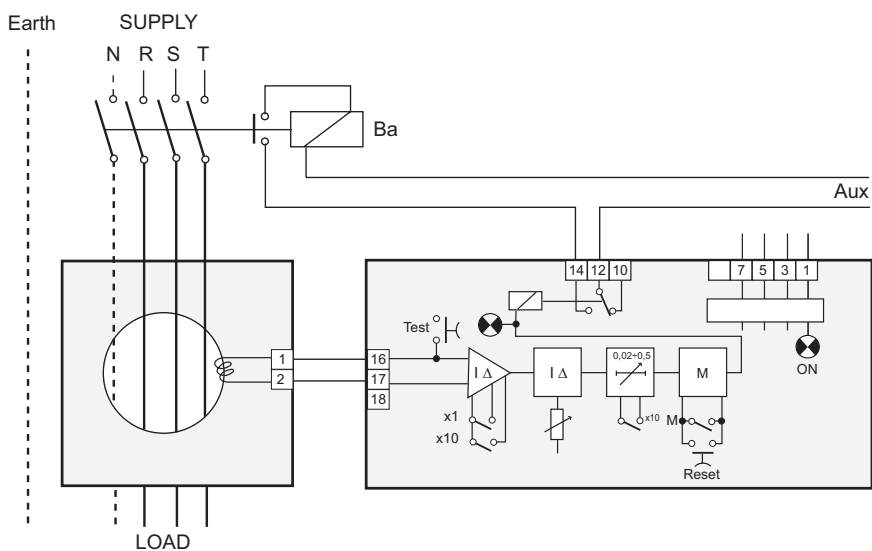


1	Manual or automatic reset selection dipswitch.
2	Tripping current selection dipswitch.
3	Tripping time selection dipswitch
4	Push button for Test
5	Push button for manual reset
6	Signalling green LED for Aux. Supply presence
7	Signalling red LED for relay tripped

ELECTRICAL CHARACTERISTICS

models and value	ELR - 3F	
Auxiliary Voltage supply	24÷48 Vac/dc	110 Vac/dc 230 - 400 Vac ± 20% (standard)
Frequency	50 ÷ 60 Hz	
Maximum consumption	3 VA	
Current tripping ajustment	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/IEC 755/CEI 64.8/ EN 61008-1(1999-11)/EN 62020 (1999-09) / EN 61543 (1996-09) /EN61326-1(1998-04) / EN 61326/A1 (1999-05)-IEC 60947-2 ANNEX M	
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	IP 20	

WIRING DIAGRAM



LEGEND

- 7-1 = 380 V ca/ac
- 7-3 = 220 V ca/ac
- 7-5 = 110 V ca/ac - ac/dc
- 7-3 = 48 V ca/ac - ac/dc
- 7-3 = 24 V ca/ac - ac/dc

DIMENSIONS

