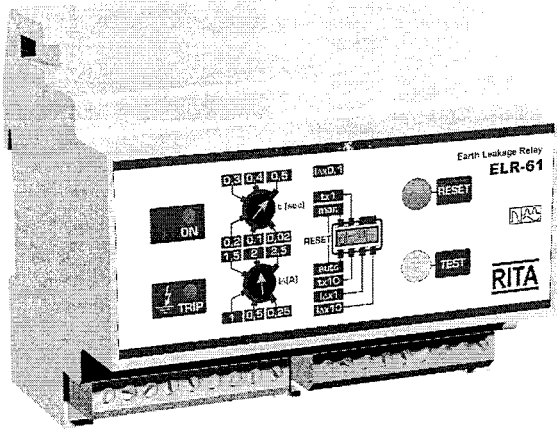


ELR-61
 ELR-m61
 ELR-62
 ELR-m62

Earth Leakage Relays

DIN rail mounting version



MODELS :

ELR-61 / ELR-m61 / ELR-62 / ELR-m62	110-230-400 Vac
ELR-61 / ELR-m61 / ELR-62 / ELR-m62	110 Vcc
ELR-61 / ELR-m61 / ELR-62 / ELR-m62	24-48 Vca/cc

OPTIONS:

- F = built-in filter for 3rd harmonic
- SP = fail safe
- T = tropicalization

GENERAL

The **ELR-61 -ELRm-61 -ELR-62 -ELRm-62** are a new serie of Earth Leakage Relays manufactured within a modular enclosure, according with DIN 43800 Standard, with 6 modules width (module base 17,5mm.).

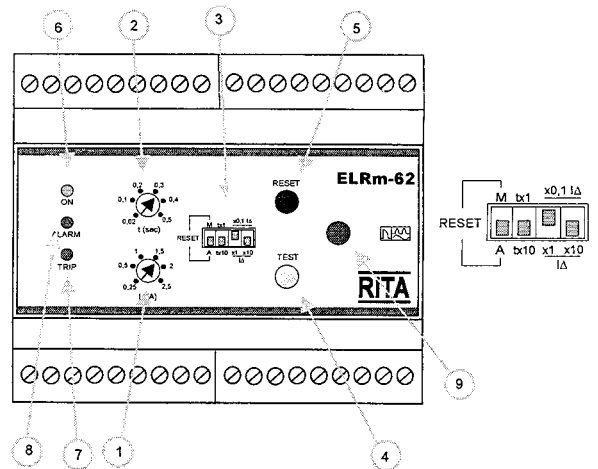
An outstanding characteristic of the present relays, is the permanent control of the Toroidal - ELR circuit. Its interruption brings along the immediate trip of the protection. This allows to identify the anomaly, without waiting to the periodical control, made with the Test push button.

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 optional alarm feature (**ELR-62**) tripping at 70% of the adjusted tripping current, may advise in advance about a lack of isolation situation.

These devices may be fitted optionally with the mechanical tripping indication (**ELRm-61 and ELRm-62**), which is quite suitable for signalling of a tripped unit, in absence of auxiliary supply

These series of relays may be coupled to any of the CT-1 Toroidal transformers



DESCRIPTION

- 1) Tripping time delay setting potentiometer
- 2) Tripping current setting potentiometer.
- 3) Constant selection microswitch:
 - Automatic reset with micro (a) in position 1
 - Constant selection for time settings:
 - K = 1 for micro(b) in position 0;
 - K=10 for micro (b) in position 1;
 - Constant selection for current settings:
 - K=0,1 for micros (c-d) in position 0;
 - K= 1 for micro (c) in position 1 and (d) in position 0;
 - K=10 for micro (c) in position 1 and micro (d) in position 1.
- 4) Test push button.
- 5) Manual reset push button.
- 6) Signalling lamp for Aux.Supply presence (green LED).
- 7) Signalling lamp for relay tripped (red LED)
- 8) Signalling lamp for alarm threshold over come (Red LED) at 70% of the IΔN on "62" models
- 9) Mechanical Signalling (only for ELRm).

ELR-61
 ELR-m61
 ELR-62
 ELR-m62

Earth Leakage Relay

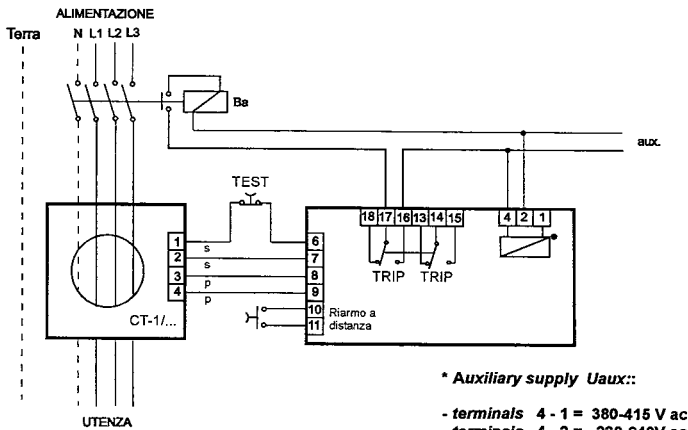
ELECTRICAL CHARACTERISTICS

TYPE	ELR- 61**	ELRm-61	ELR-62	ELRm-62
Auxiliary Voltage supply	24-48Vac/dc 110Vdc 110-230-400V.a.c ± 20%			
Frequency	50-60 Hz			
Maximum consumption	4 VA			
Current tripping setting range ΔN	0,025÷0,25A K=0,1 - 0,25÷2,5A K=1 - 2,5÷25A K=10 25÷250A*			
Allarm current range	—		70%	
Tripping time setting range	0,02 ÷ 0,5 sec. K=1 - 0,2 ÷ 5 sec. K=10			
Mechanical Signalisation	—	•	—	•
Output: 2 changeover contacts	5A 250V			
Working Temperature	-10 + 60°C			
Storing Temperature	-20 + 80°C			
Relative Humidity	90%			
Insulation Test	2,5 kV 60 sec.			
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)			
Wiring method	Screw terminals for cross section wires 2,5 mm ²			
Protection degree according DIN 40050	IP20			

*By means of external multiplier

** Available with current tripping adjustment range 0,01÷10A

WIRING DIAGRAM



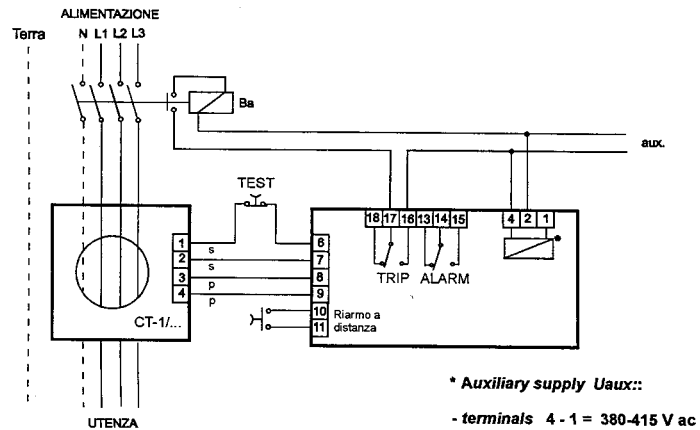
ELR-61 ELR-m61

* Auxiliary supply Uaux::

- terminals 4 - 1 = 380-415 V ac
- terminals 4 - 2 = 220-240V ac
- terminals 2 - 1 = 110-127V ac

- terminals 4 - 1 = 48 V ac/dc
- terminals 2 - 1 = 24V ac/dc

- terminals 4 - 1 = 110-127V dc



ELR-62 ELR-m62

* Auxiliary supply Uaux::

- terminals 4 - 1 = 380-415 V ac
- terminals 4 - 2 = 220-240V ac
- terminals 2 - 1 = 110-127V ac

- terminals 4 - 1 = 48 V ac/dc
- terminals 2 - 1 = 24V ac/dc

- terminals 4 - 1 = 110-127V dc

DIMENSIONS

