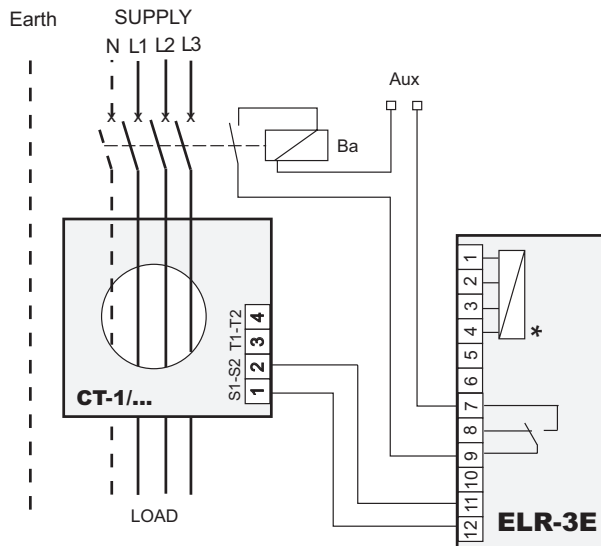


ELECTRICAL CHARACTERISTICS

models and value	ELR - 3E	
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 adjustment range IΔN	0,03 - 0,1 - 0,3 - 0,5 - 1A	
Tripping time adjustment range t	0,02 - 0,2 - 0,5 - 1 - 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	Terminals for cross section cable of 2,5 mm ²	
Mounting according DIN 50022	Quick mountin on a DIN rail of 35 mm	
Protection degree according DIN 40050	IP 20	

WIRING DIAGRAM



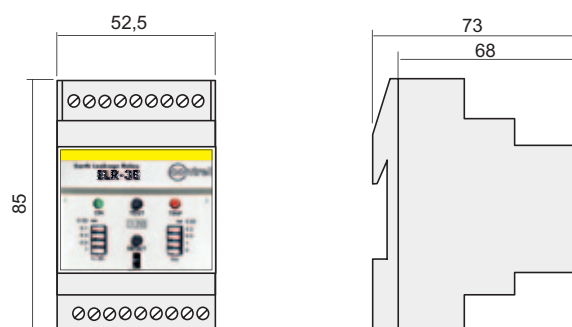
LEGEND

1-4 = 380-415 V ac
1-3 = 220-240 V ac
1-2 = 110-125 V ac / dc

1-3 = 48 V ac/dc
1-2 = 24 V ac/dc

* Auxiliary supply Uaux:

DIMENSIONS



ELR-61 / ELR-M61 ELR-62 / ELR-M62

EARTH LEAKAGE RELAY
DIN RAIL MOUNTING VERSION

MICROENER

GENERALITY



The **ELR-61 -ELRm-61 -ELR-62 -ELRm-62** are 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 im-

MODELS

**ELR-61 / ELR-m61
ELR-62 / ELR-m62** 110-230-400 Vac

**ELR-61 / ELR-m61
ELR-62 / ELR-m62** 24-48 Vac/dc

**ELR-61 / 10
setting trip current 10mA** 110-230-400 Vac

OPTIONS

F built-in filter for 3rd harmonic

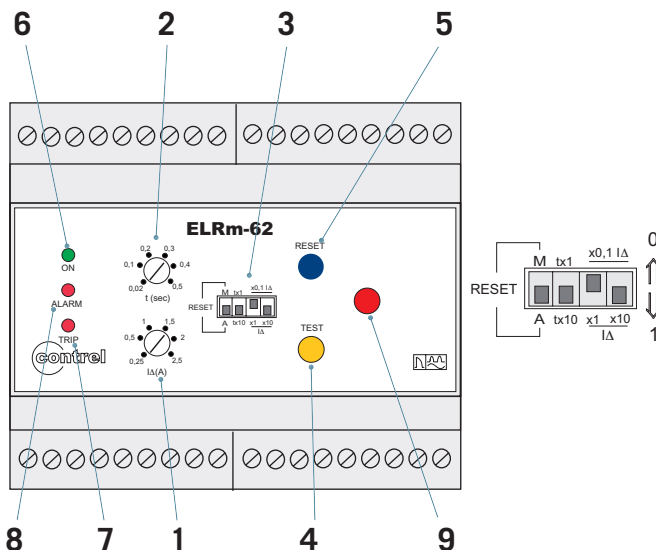
SP fail safe

T tropicalisation

mune 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.

LEGEND



1	Tripping time delay setting potentiometer
2	Tripping current setting potentiometer.
3	Constant selection microswitch: 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 (din 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	Signallig 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 I _{AN} (only for ELR-62 and ELR-m62)
9	Mechanical Signalling (only for ELR-m61 and ELR-m62)