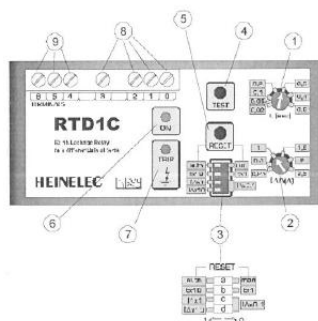




## MODELS

RTD1C/35 RTD1C/60 RTD1C/110:110Vac/dc-230-400 Vac

RTD1C/35 RTD1C/60 RTD1C/110:24-48 Vac/dc



## EARTH LEAKAGE RELAYS &gt;&gt;

Cat No.	Operating Voltage	Adjustment	Hole Dia. (mm)
RTD1C110A	110-127V AC&DC, 220V-240V AC, 380V-415V AC	Rated Tripping current : 0.025A to 25A Trip time : 0.0s to 5s	110
RTD1C110B	24V AC&DC, 48V AC&DC	Rated Tripping current : 0.025A to 25A Trip time : 0.0s to 5s	110
RTD1C35A	110-127V AC&DC, 220V-240V AC, 380V-415V AC	Rated Tripping current : 0.025A to 25A Trip time : 0.0s to 5s	35
RTD1C35B	24V AC&DC, 48V AC&DC	Rated Tripping current : 0.025A to 25A Trip time : 0.0s to 5s	35
RTD1C60A	110-127V AC&DC, 220V-240V AC, 380V-415V AC	Rated Tripping current : 0.025A to 25A Trip time : 0.0s to 5s	60
RTD1C60B	24V AC&DC, 48V AC&DC	Rated Tripping current : 0.025A to 25A Trip time : 0.0s to 5s	60

## Features

- The RTD1C have the particularity that they are manufactured with the built in Toroidal Transformers.
- Although its reduced dimensions, the relay has as wide setting ranges as the other RTD's series. Such a feature allows to easily choose the tripping current value, in the way that the voltage values are maintained below 50V, in compliance with the CEI Standards.
- It allows also to perform a tripping selectivity, whenever there are more RTD's or RCD's in the same line.
- Other important feature is its insensitivity to external disturbances and pulse currents with dc components (presents in the line), due to the filters built on the input circuits, as per the VDE Standards.
- The auxiliary voltage presence signal (Green LED) and the relay tripped signal (Red LED) can be brought to the front of the board, with the auxiliary device AD, which is also fitted with the reset push button.

### ELECTRICAL CHARACTERISTICS

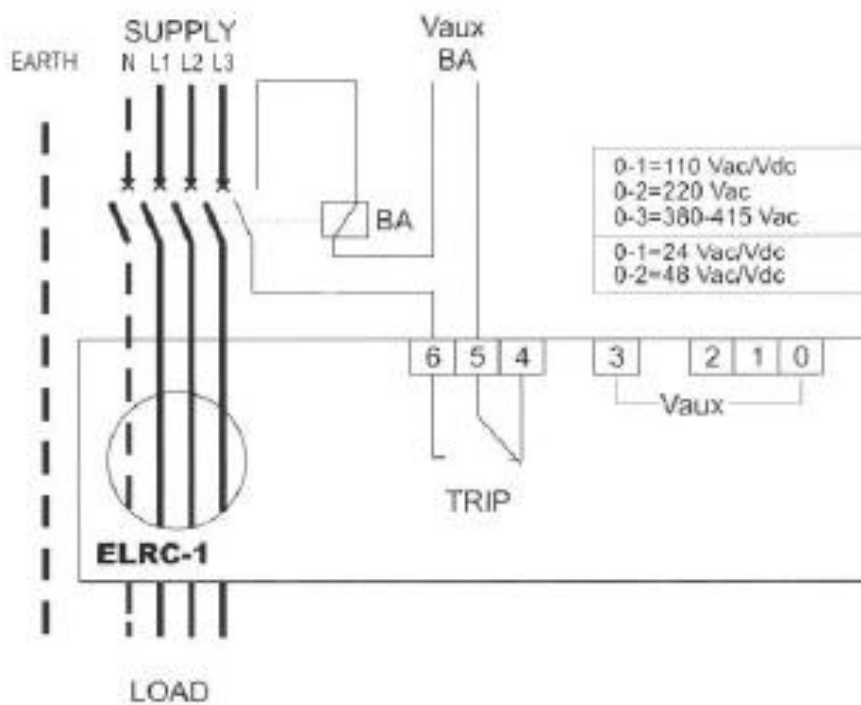
Auxiliary Voltage Supply	24-48V ac/dc / 110 Vac/dc - 230 - 400 Vac $\pm$ 20%
Frequency	50-60 Hz
Maximum Consumption	3 VA
Current tripping setting range $I_{\Delta N}$	0,025-0,25A K=0,1 - 0,25-2,5A K=1 - 2,5-25A K=10
Tripping time setting range	0,02 - 0,5 sec. K=1 - 0,2 - 5 sec. K=10
Output: 2 change over 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 (1998-11) / EN 62020 (1999-09) / EN 61543 (1996-09) / EN 61326-1 (1998-04) / EN 61326/A1 (1999-05)
Wiring method	Screw terminals for cross section wire 2,5 mm <sup>2</sup>
Terminals protection according with DIN 40050	IP20

## Applications

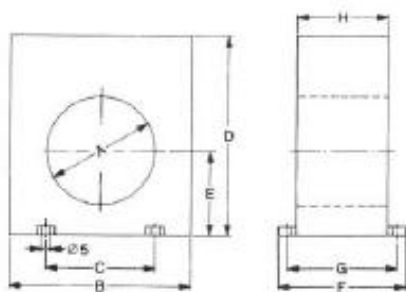
- They are specially conceived for those applications in which the space saving is an advantage (for example, in MOTOR CONTROL CENTERS, BATTERIES OF DISTRIBUTION, etc.).

## Technical Data

### Wiring Diagram



### Dimensions







Tipo	Dimensions - mm							
	A	B	C	D	E	F	G	H
ELRC-1/35	35	100	60	110	47	70	60	50
ELRC-1/60	60	100	60	110	47	70	60	50
ELRC-1/80	80	150	110	160	70	70	60	50
ELRC-1/110	110	150	110	160	70	70	60	50

## Description

- 1) Potentiometer for tripping time setting.
- 2) Potentiometer for tripping current setting.
- 3) Microswitches for constant selection:
  - time:
    - K = 1 with micro (a) in position 0;
    - K = 10 with micro (a) in position 1;
  - current:
    - K = 0, 1 with micros (b-c) in position 0;
    - K = 1 with micro (b) in position 1 and (c) in position 0;
    - K = 10 with micros (c-b) in position 1;
- 4) Test push button.
- 5) Manual reset push button.
- 6) Signaling lamp for Aux. Supply presence (Green LED).
- 7) Signaling lamp for relay tripped (Red LED).
- 8) Output terminals for Aux. Supply.
- 9) Output terminals for end relays.

## Selection Data

MAXIMUM PERMISSIBLE CURRENT IN AMPS (INCLUDING INRUSH) THROUGH TOROID

CONDUCTOR CONFIGURATION																									Maximum 10 kV 100 0.3.3 50000
RELAY TRIP CURRENT Cat No	CLOSE SPACED TYPICAL						LARGE SPACED TYPICAL						TAPER OR SEMI-HOVED, FLAT						BUSBAR						
	0.02A	0.1A	1.0A	2.5A	5A	25A	0.02A	0.1A	1.0A	2.5A	5A	25A	0.02A	0.1A	1.0A	2.5A	5A	25A	0.02A	0.1A	1.0A	2.5A	5A	25A	
RTD1C50	400	1700	1800	1800	1800	1800	500	550	1000	1050	1050	1050	300	300	1000	1000	1000	1000							
RTC50	100	550	1800	1800	1800	1800	50	750	850	900	900	950	30	750	850	850	850	850							
PCT110	450	1200	1500	2400	2400	2400	200	750	850	900	900	950	200	750	850	850	850	850	750	850	900	900	950		
PCTA110	30	450	850	700	1100	1400	20	300	400	550	600	650	20	200	400	750	800	850	250	450	750	900	950		
PCT210		650	950	300	350	1000		400	500	550	600	650		500	600	750	800	850	500	600	700	800	900		
PCTA210		190	830	750	800	900		100	200	400	600	650		300	400	750	800	850	300	450	700	800	900		
BCT3 - 200	1000	3750	5000	7500	7500	8500	400	2400	3000	4000	5000	6000	800	2400	4000	5200	5800	7000	800	2700	5200	7000	7000	8000	
BCT3/SC - 200	1400	3500	5500	6400	8000		800	1300	3700	4500	5500		1000	2000	3700	4500	5500		850	1800	2700	5300	6000		

NOTE: For motor applications, the motor locked rotor current must not exceed the values shown above.