

Features:

- 10 2 Wire, 30 3 Wire & 30 4 Wire Input
- Leakage current monitoring
- True RMS measurement
- . CBCT connection monitoring
- Power ON delay, Trip time delay and Recovery time delay
- Adjustable switching hysteresis
- Two separate alarm relays with NO or NC operation selectable
- Test and Reset buttons via front / remote
- LCD with backlight
- DIN Rail Mount

Size: 35mm (Width)

Certifications: C € RoHS

Technical Specifications

Display

Display	Liquid Crystal Display with backlight
Digits	3

Input Specifications

	cti		

Measurements Earth Leakage current monitoring

(via external CBCT)

Time Settings Power ON delay, Trip time delay,

Recovery timer delay

Alarm Indications Pre - warning alarm, Trip, CBCT error

Latching Selectable

Reset Auto / Manual (Selectable) **Electrical Connection** 1Ø-2 wire, 3Ø-3 wire, 3Ø-4 wire

Auxiliary Supply

Supply Voltage (Factory set) 230V AC, 110V AC, 12-24V DC, ±15%

Frequency 45 - 65Hz VA Rating 3VA max

Current Rating

Measuring Range (RMS Value) 4mA-30A, 45-65Hz

Trip Settings

Leakage Current 10mA - 30A

Pre Alarm 50 - 100% of Leakage Current Setting

Trip Time Settings

Power ON Delay 0.5 - 99.9sec
Trip Time Delay 0 - 99.9sec
Recovery Time Delay 0 - 99.9sec

Response Time < 30ms (if trip current $\ge 5 x$ set value)

< 50ms (if trip current \geq 1 x set value)

Hysteresis

Hysteresis 5 - 40% of set value

Resolution

Current 0.1mA, 1mA, 0.01A, 0.1A

(Depends on trip setting)

Accuracy

 $\begin{array}{ll} \text{Current} & \pm 5\% \text{ of Setting} \\ \text{Time Setting Accuracy} & \pm 5\% \text{ of setting} + 100 \text{ms} \end{array}$

Output Specifications

No. of Relays	2	
Type of output (Relay1)	1C/O (SPDT)	
Type of output (Relay2)	1C/O (SPDT)	
Relay Rating	NO: 5A, 250V AC	
	NC: 3A, 250V AC	

LED Indication

LED1 (Red)	Relay (Continuously ON after trip)
LED2 (Red)	Pre - Alarm (Continuously ON during pre
	alarm condition)

Note - LED1 and LED2 blinks during CBCT error

Environmental Specifications

Ambient Temperature	Operating Temperature: 0°C to 50°C Storage Temperature : -20°C to +70°C
Humidity (non-condensing)	95% RH
Pollution Degree	2
Degree of protection	IP50 Faceplate
	IP30 Housing
	IP20 Terminals

Mechanical Specifications

No. of Push Buttons	3
Size	35mm width
Mounting	Din Rail Mount
Weight	217 g
Conductor cross section (Solid)	1 x (0.5 to 4) Sq mm
Conductor cross section sleeved	2 x (0.5 to 1.5) Sq mm
(Stranded)	1 x (0.5 to 2.5) Sq mm
Screw tightening torque	0.5 Nm

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EMC

Electromagnetic compatibility IEC 62020

ESD Immunity: IEC 61000-4-2 Level 3, 8 kV / air discharge, 6 kV

contact discharge

Surge Immunity: IEC 61000-4-5 Tr/Th 1.2/50 us, 4 kV Common mode,

2 kV differential mode

Radiated Susceptibility: IEC 61000-4-3 $\,$ 3 V/m (80 MHz to 1000 MHz)

Conducted Susceptibility: IEC 61000-4-6 0.15 MHz to 80 MHz, Z = 150 ohm, 3 V

for In >= 30 mA 1 V for In < 30 mA

Voltage Dips and Interruption: Dips: 0% residual voltage / 1 cycle IEC 61000-4-11 Crit B.), 40% residual voltage / 10

cycles 50 Hz / 12 cycles 60 Hz (Crit C) 70% residual voltage / 25 cycles 50 Hz

/ 30 cycles 60 Hz (Crit C)

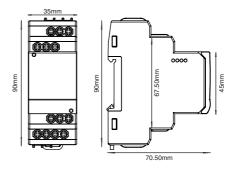
Interruptions: 0% residual voltage / 250 cycles 50 Hz / 300 cycles 60 Hz

(Crit C)

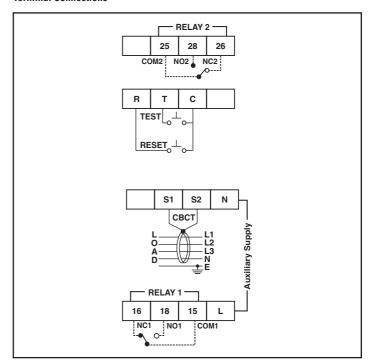
Conducted Emissions CISPR-11 & IEC 61000-6-3

Radiated Emissions CISPR-22 Electrical Fast Transient: IEC 61000-4-4 Level 4

Dimensions



Terminal Connections



Ordering Information

Part No.	Supply Voltage	Certification
rait Nu.		C€ RoHS
900ELR-2-230V-CE	230V AC	Yes
900ELR-2-230V	230V AC	-
900ELR-2-110V-CE	110V AC	Yes
900ELR-2-110V	110V AC	-

Accessories

Part No.	ID	Turns Ratio
CBCT - 35 - 1	35mm	1000:1
CBCT - 70 - 1	70mm	1000:1
CBCT - 120 - 1	120mm	1000:1

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