

# ELR-3C

## EARTH LEAKAGE RELAY - MODULAR VERSION 3 MODULES

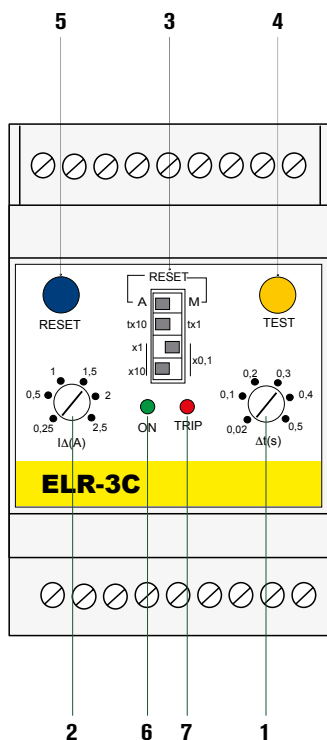


### GENERAL CHARACTERISTICS

- Earth leakage relay type A
- External toroidal
- Green power LED indicator (ON)
- Red relay tripped LED indicator (TRIP)
- Front TEST and RESET buttons
- Configurable automatic or manual resetting
- Modular DIN housing, 3 module, with transparent cover
- Degree of protection: IP20 terminals, IP40 on front with cover

ORDER CODE	RATED AUXILIARY SUPPLY VOLTAGE	OUTPUTS CONTACTS	WT [kg]
<b>ELR-3C 12</b>	12 VAC/DC	1	0,190
<b>ELR-3C 48</b>	24-48 VAC/DC	1	0,190
<b>ELR-3C 415</b>	110 VAC/DC-240-415 VAC	1	0,190
OPTIONS			
<b>T</b>	Tropicalisation		

ADJUSTMENTS	
<b>Configurable tripping set-point (<math>I_{\Delta n}</math>)</b>	0,025...0,25A 0,25...2,5A 2,5...25A 25...250A (with external multiplier CT1-M)
<b>Configurable tripping delay time (t)</b>	0,02...0,5s 0,2...5s.

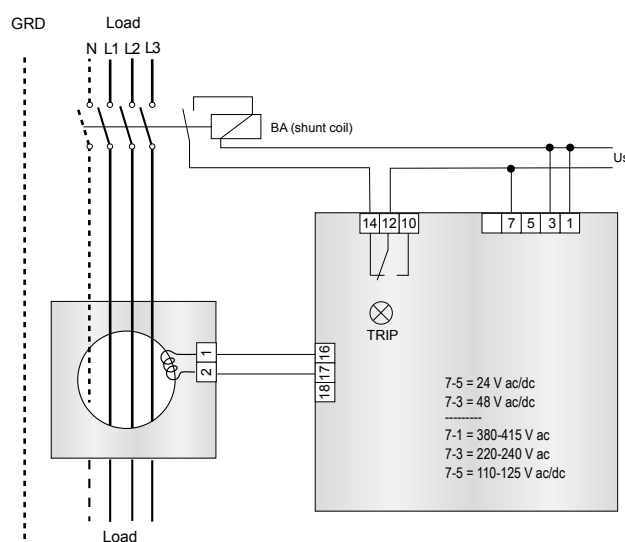


LEGENDA	
<b>1</b>	Tripping delay time adjustment
<b>2</b>	Fault current to earth adjustment
<b>3</b>	<p>Dip switches settings:</p> <p><b>3a</b> -auto reset (A) - man reset (M) auto reset = automatic reset man reset = manual reset through RESET key on the front. For remote resetting, simply shut off the auxiliary supply for about 1 second</p> <p><b>3b</b> -tx10 - tx1 constant selection for tripping delay time adjustment. Examples: positioning the dip switch on tx10 and the potentiometer on 0.3 we will have a tripping delay upon exceeding the <math>I_{\Delta n}</math> threshold of <math>0.3 \times 10 = 3</math> seconds; positioning the dip switch on tx1 and the potentiometer on 0.3 we will have a tripping delay upon exceeding the <math>I_{\Delta n}</math> threshold of <math>0.3 \times 1 = 0.3</math> seconds</p> <p><b>3c</b> -<math>I_{\Delta n} \times 0.1</math> - <math>I_{\Delta n} \times 1</math> - <math>I_{\Delta n} \times 10</math> constant selection for fault current to earth adjustment. The constants in relation to the position of the 2 dip switches are the following:</p> <ul style="list-style-type: none"> <li>• dip switch position <math>I_{\Delta n} \times 0.1</math> and <math>I_{\Delta n} \times 0.1</math> K = 0.1</li> <li>• dip switch position <math>I_{\Delta n} \times 1</math> and <math>I_{\Delta n} \times 0.1</math> K = 1</li> <li>• dip switch position <math>I_{\Delta n} \times 1</math> and <math>I_{\Delta n} \times 10</math> K = 10</li> </ul>
<b>4</b>	TEST key. Causes tripping of the relay.
<b>5</b>	RESET key. To reset the relay after tripping. For remote reset, simply shut off the auxiliary supply for about 1 second.
<b>6</b>	ON LED. Indicates the presence of auxiliary voltage.
<b>7</b>	TRIP LED. Lighting up indicates the cutting in of the TRIP relay due to exceeding the $I_{\Delta n}$ set.

## EARTH LEAKAGE RELAY - MODULAR VERSION 3 MODULES

TECHNICAL CHARACTERISTICS		ELR-3C		
CONTROL CIRCUIT				
Toroidal transformer	External			
Adjustments tripping set-point (IΔ)	0.025÷25A (25÷250A with external multiplier)			
Adjustments tripping time (t)	0.02÷5s			
AUXILIARY SUPPLY				
Auxiliary voltage (Us)	12 VAC/DC   24-48 VAC/DC   110 VAC/DC-240-415 VAC			
Rated frequency	50-60 Hz			
Maximum power consumption	3 VA			
OUTPUT RELAYS				
Contact arrangement	1 changeover (trip)			
Rated contact capacity lth	5 A (240 VAC)			
INDICATIONS				
Auxiliary voltage available (ON)	Green LED			
Relay tripping (TRIP)	Red LED			
INSULATION				
Insulation test	2.5kV for 1 minute			
AMBIENT OPERATING CONDITIONS				
Operating temperature	-10÷60 °C			
Storage temperature	-20÷80 °C			
Relative humidity	≤90%			
ENCLOSURE				
Version	3 modules DIN			
Degree of protection	IP20 terminals   IP40 with protective cover			
CERTIFICATIONS AND COMPLIANCE				
Reference standards	IEC/EN 61010, IEC/EN 61000-6-2   IEC/EN 61000-6-3, IEC/TR 60755   CEI EN 60947-2 Annex M			

## WIRING CONNECTION



## MECHANICAL DIMENSIONS

