

ELR-3E

EARTH LEAKAGE RELAY - MODULAR VERSION 3 MODULES

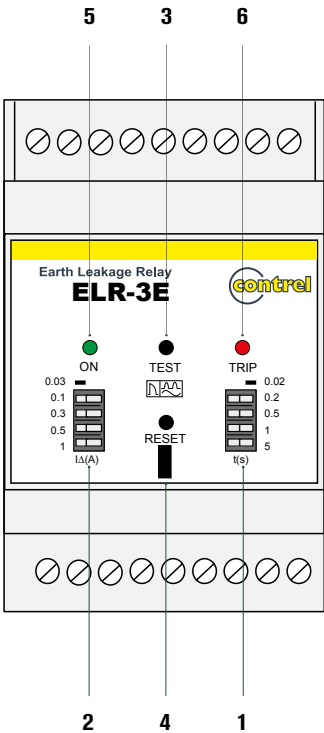


GENERAL CHARACTERISTICS

- Earth leakage relay type A
- External toroidal
- Green power LED indicator (ON)
- Red relay tripped LED indicator (TRIP)
- Front TEST and RESET buttons
- 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] |
|------------|--------------------------------|------------------|---------|
| ELR-3E 48  | 24-48 VAC/DC                   | 1                | 0,190   |
| ELR-3E 415 | 110 VAC/DC-240-415 VAC         | 1                | 0,190   |
| OPTIONS    |                                |                  |         |
| T          | Tropicalisation                |                  |         |

| ADJUSTMENTS                           |                                     |
|---------------------------------------|-------------------------------------|
| Configurable tripping set-point (IΔn) | 0,03A<br>0,1A<br>0,3A<br>0,5A<br>1A |
| Configurable tripping delay time (t)  | 0,02s<br>0,2s<br>0,5<br>1s<br>5s    |



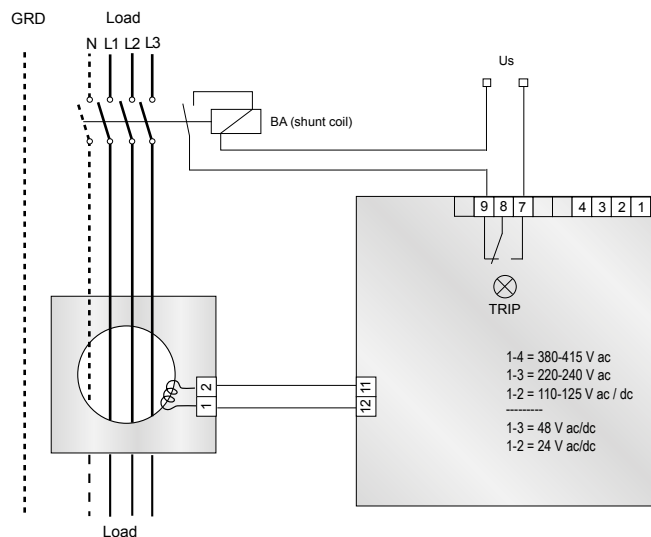
| LEGENDA |                                                                                                                             |
|---------|-----------------------------------------------------------------------------------------------------------------------------|
| 1       | Tripping delay time adjustment                                                                                              |
| 2       | Fault current to earth adjustment                                                                                           |
| 3       | TEST key.<br>Causes tripping of the relay.                                                                                  |
| 4       | RESET key.<br>To reset the relay after tripping. For remote reset, simply shut off the auxiliary supply for about 1 second. |
| 5       | ON LED.<br>Indicates the presence of auxiliary voltage.                                                                     |
| 6       | TRIP LED.<br>Lighting up indicates the cutting in of the TRIP relay due to exceeding the IΔn set.                           |

# ELR-3E

## EARTH LEAKAGE RELAY - MODULAR VERSION 3 MODULES

| TECHNICAL CHARACTERISTICS                    |  | ELR-3E                                                                                   |
|----------------------------------------------|--|------------------------------------------------------------------------------------------|
| <b>CONTROL CIRCUIT</b>                       |  |                                                                                          |
| Toroidal transformer                         |  | External                                                                                 |
| Adjustments tripping set-point (I $\Delta$ ) |  | 0,03 A o 0,1 A o 0,3 A o 0,5 A o 1 A                                                     |
| Adjustments tripping time (t)                |  | 0,02 s o 0,2 s o 0,5 s o 1 s                                                             |
| <b>AUXILIARY SUPPLY</b>                      |  |                                                                                          |
| Auxiliary voltage (Us)                       |  | 24-48 VAC/DC   110 VAC/DC-240-415 VAC                                                    |
| Rated frequency                              |  | 50-60 Hz                                                                                 |
| Maximum power consumption                    |  | 3 VA                                                                                     |
| <b>OUTPUT RELAYS</b>                         |  |                                                                                          |
| Contact arrangement                          |  | 1 changeover (trip)                                                                      |
| Rated contact capacity Ith                   |  | 5 A (240 VAC)                                                                            |
| <b>INDICATIONS</b>                           |  |                                                                                          |
| Auxiliary voltage available (ON)             |  | Green LED                                                                                |
| Relay tripping (TRIP)                        |  | Red LED                                                                                  |
| <b>INSULATION</b>                            |  |                                                                                          |
| Insulation test                              |  | 2.5kV for 1 minute                                                                       |
| <b>AMBIENT OPERATING CONDITIONS</b>          |  |                                                                                          |
| Operating temperature                        |  | -10÷60 °C                                                                                |
| Storage temperature                          |  | -20÷80 °C                                                                                |
| Relative humidity                            |  | ≤90%                                                                                     |
| <b>ENCLOSURE</b>                             |  |                                                                                          |
| Version                                      |  | 3 modules DIN                                                                            |
| Degree of protection                         |  | IP20 terminals   IP40 with protective cover                                              |
| <b>CERTIFICATIONS AND COMPLIANCE</b>         |  |                                                                                          |
| 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

