ELRC-B

EARTH LEAKAGE RELAY - MODULAR VERSION 1 MODULE, WITH **INCORPORATED TOROIDAL TRANSFORMER**

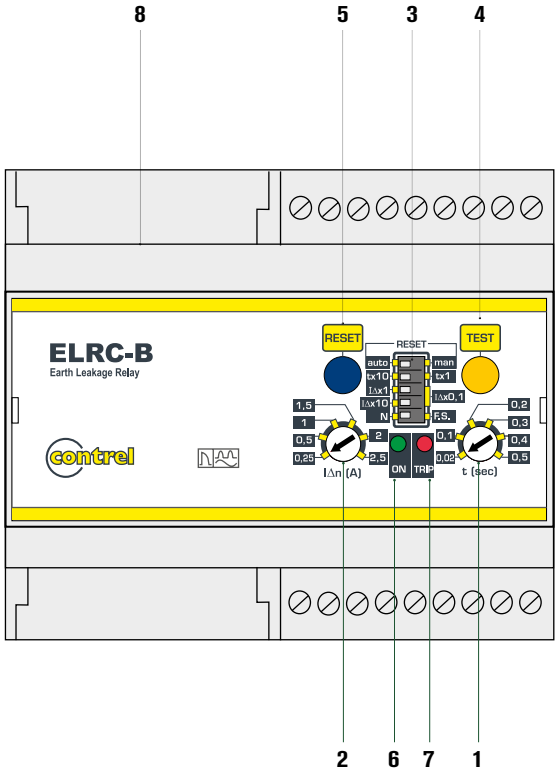
GENERAL CHARACTERISTICS

- Earth leakage relay type A
- Incorporated toroidal Ø28mm
- Configurable fail safe operation
- Green power LED indicator (ON)
- Red relay tripped LED indicator (TRIP)
- Front TEST and RESET buttons
- Configurable automatic or manual resetting
- Modular DIN housing, 6 module, with transparent cover
- Degree of protection: IP20 terminals, IP40 on front with cover

ORDER CODE	RATED AUXILIARY SUPPLY VOLTAGE	OUTPUTS CONTACTS	WT [kg]
ELRC-B 48	24-48 VAC/DC	2	0,375
ELRC-B 415	110 VAC/DC 240-415 VAC	2	0,375

OPTIONS	
T	Tropicalisation
F	Built-in filter for 3rd harmonic (ELR-92 only)

ADJUSTMENTS	
Configurable tripping set-point (IΔn)	0,025...0,25A 0,25...2,5A 2,5...25A
Configurable tripping delay time (t)	0,02...0,5s 0,2...5s.



LEGENDA	
1	Tripping delay time adjustment
2	Fault current to earth adjustment
3	Dip switches settings: **3a** - 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 **3b** - 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 IΔn threshold of 0.3x10 = 3 seconds; positioning the dip switch on tx1 and the potentiometer on 0.3 we will have a tripping delay upon exceeding the IΔn threshold of 0.3x1 = 0.3 seconds **3c** - IΔnx0,1 - IΔnx1 - IΔnx10 constant selection for fault current to earth adjustment. The constants in relation to the position of the 2 dip switches are the following: – dip switch position IΔnx0.1 and IΔnx0.1 K = 0.1 – dip switch position IΔnx1 and IΔnx0.1 K = 1 – dip switch position IΔnx1 and IΔnx10 K = 10 **3d** - N - F.S. F.S. = positive safety activated; in this condition the output relay is normally energised; therefore in the event of the lack of auxiliary voltage the output contacts move to the tripping condition. N = positive safety deactivated. Output relay normally deenergised
4	TEST key. Causes tripping of the relay.
5	RESET key. To reset the relay after tripping. For remote reset, simply shut off the auxiliary supply for about 1 second.
6	ON LED. Indicates the presence of auxiliary voltage.
7	TRIP LED. Lighting up indicates the cutting in of the TRIP relay due to exceeding the IΔn set.
8	Built-in current transformer. Hole diameter 28mm. It must be crossed by the cables of the line to be controlled; insert the phases and neutral if present. The earth cable must NOT cross the current transformer

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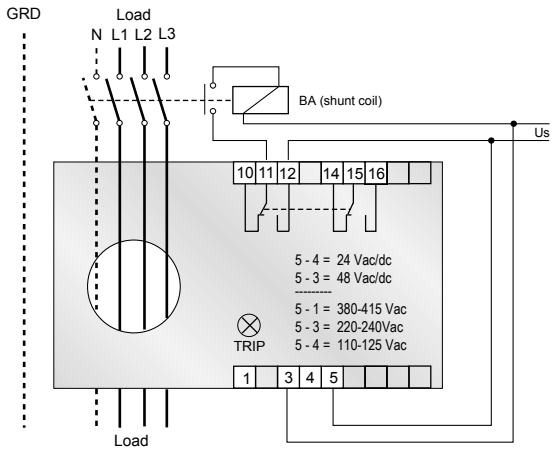
TECHNICAL CHARACTERISTICS	ELRC-B
CONTROL CIRCUIT	
Toroidal transformer	Incorporated Ø 28 mm
Adjustments tripping set-point (IΔ)	0.025÷25A
Adjustments tripping time (t)	0.02÷5s
AUXILIARY SUPPLY	
Auxiliary voltage (Us)	24-48 VAC/DC | 110 VAC/DC-240-415 VAC
Rated frequency	50-60 Hz
Maximum power consumption	3 VA
OUTPUT RELAYS	
Contact arrangement	2 changeovers (both trip)
Rated contact capacity Ith	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	6 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