ELR-1D

EARTH LEAKAGE RELAY - MODULAR VERSION 1 MODULE

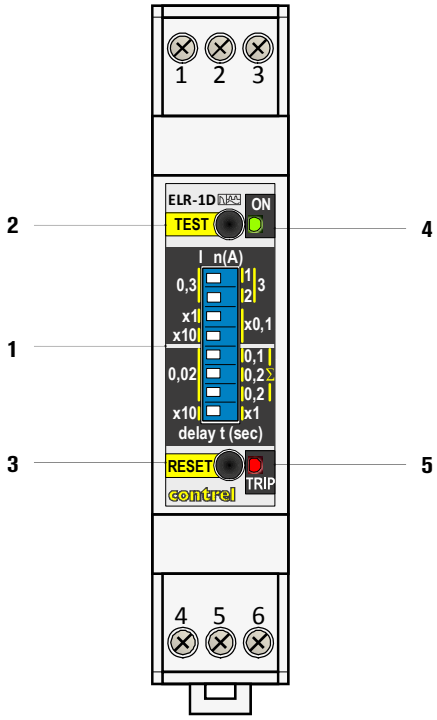
GENERAL CHARACTERISTICS

- Earth leakage relay type A
- External toroidal
- Green power LED indicator (ON)
- Red relay tripped LED indicator (TRIP)
- Front TEST and RESET buttons
- Modular DIN housing, 1 module, with transparent cover, suitable for fixing on 35mm DIN rail (IEC/EN 60715)
- IEC degree of protection: IP20 terminals, IP40 on front with cover.

ORDER CODE	RATED AUXILIARY SUPPLY VOLTAGE	OUTPUTS CONTACTS	WT [kg]
ELR-1D 24	24 VAC/DC	1	0,190
ELR-1D 48	48 VAC/DC	1	0,190
ELR-1D 110	110 VAC/DC	1	0,190
ELR-1D 230	230 VAC/DC	1	0,190

OPTIONS	
T	Tropicalisation

ADJUSTMENTS	
Configurable tripping set-point (IΔn)	0,03...0,30A 0,3...3A 3...30A
Configurable tripping delay time (t)	0,02...0,5s 0,2...5s.



LEGENDA	
1	Dip switches settings: **1a** - 0.3 - 3 selection of fault current to earth tripping threshold IΔn. Positioning the dip switch on 0.3 we will have a tripping threshold IΔn of 0.3A; in position 3 the threshold will be 3A. **1b** - 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 **1c** - 0.5(0.2+0.1+0.1) - 0.02 tripping delay time selection Positioning the dip switch on 0.2,0.2,0.1 we will have a tripping delay upon exceeding the IΔn threshold of 0.5 sec; in the 0.02 position the delay will be 0.02sec **1d** - 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
2	TEST key. Causes tripping of the relay.
3	RESET key. To reset the relay after tripping. For remote reset, simply shut off the auxiliary supply for about 1 second.
4	ON LED. Indicates the presence of auxiliary voltage.
5	TRIP LED. Lighting up indicates the cutting in of the TRIP relay due to exceeding the IΔn set.

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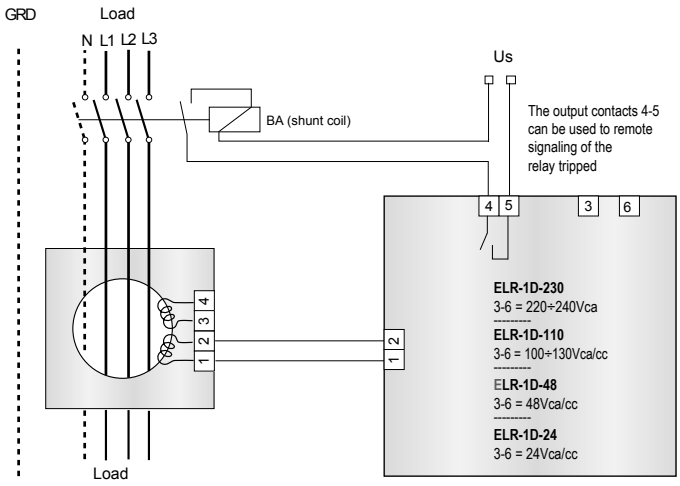
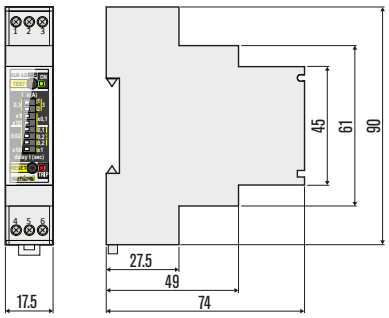
TECHNICAL CHARACTERISTICS	ELR-1D
CONTROL CIRCUIT	
Toroidal transformer	External
Adjustments tripping set-point (IΔ)	0.03÷30A
Adjustments tripping time (t)	0.02÷5s
AUXILIARY SUPPLY	
Auxiliary voltage (Us)	24 VAC/DC | 48 VAC/DC | 110 VAC/DC | 240-415 VAC
Rated frequency	50-60 Hz
Maximum power consumption	3 VA
OUTPUT RELAYS	
Contact arrangement	1 changeover (trip)
Rated contact capacity 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	1 module 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



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