ELR-61 | ELR-m61 / ELR-62 | ELR-m62

EARTH LEAKAGE RELAY - MODULAR VERSION 6 MODULES

GENERAL CHARACTERISTICS

- Earth leakage relay type A
- External toroidal
- Green power LED indicator (ON)
- Red relay tripped LED indicator (TRIP)
- Red tripping prealarm LED indicator (ALARM)
  (ELR-62, ELR-m62 only)
- Front TEST and RESET buttons
- Configurable automatic or manual resetting
- Flag indicator (TRIP MEMORY)
  (ELR-m61, ELR-m61 only)
- 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]
ELR-61 48	24-48 VAC/DC	2	0,390
ELR-61 415	110-240-415 VAC	2	0,390
ELR-61 /10 Calibration up to 10 mA	110-240-415 VAC	2	0,390
ELR-m61 48	24-48 VAC/DC	2	0,390
ELR-m61 415	110-240-415 VAC	2	0,390
ELR-62 48	24-48 VAC/DC	2	0,390
ELR-62 415	110-240-415 VAC	2	0,390
ELR-m62 48	24-48 VAC/DC	2	0,390
ELR-m62 415	110-240-415 VAC	2	0,390

OPTIONS	
T	Tropicalisation
F	Built-in filter for 3rd harmonic (ELR-92 only)
SP	Configurable fail safe operation

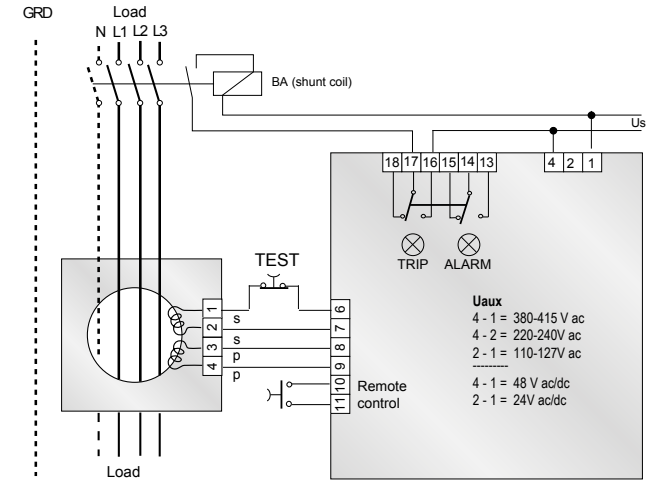
ADJUSTMENTS	
Configurable tripping set-point (IΔn)	0,025...0,25A 0,25...2,5A 2,5...25A 25...250A (with external multiplier CT1-M)
Prealarm set-point	fixed 70% (ELR-62, ELR-m62 only)
Configurable tripping delay time (t)	0,02...0,5s 0,2...5s.

ELR-61 | ELR-m61 / ELR-62 | ELR-m62

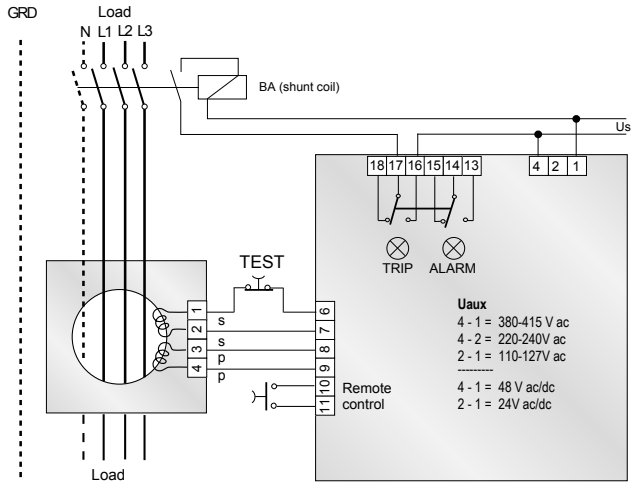
EARTH LEAKAGE RELAY - MODULAR VERSION 6 MODULES

TECHNICAL CHARACTERISTICS	ELR-61 | ELR-m61 / ELR-62 | ELR-m62
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
Set-point prellarme	70% IΔn (fixed) (versions ELR-62, ELR-m62)
AUXILIARY SUPPLY	
Auxiliary voltage (Us)	24-48 VAC/DC | 110 VAC/DC-240-415 VAC
Rated frequency	50-60 Hz
Maximum power consumption	4 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
Alarm advance (ALARM)	Red LED (versions ELR-m61, ELR-m62)
Mechanical flag (TRIP)	Flag indicator (versions ELR-m61, ELR-m62)
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

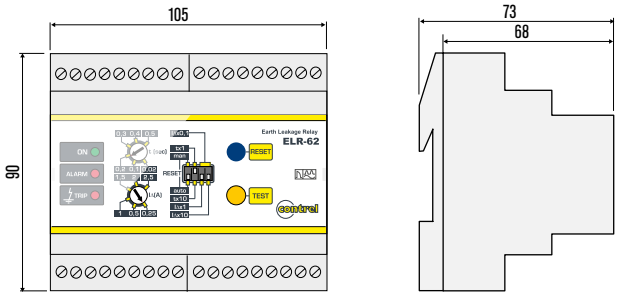
WIRING CONNECTION ELR-61 | ELR-m61



WIRING CONNECTION ELR-62 | ELR-m62

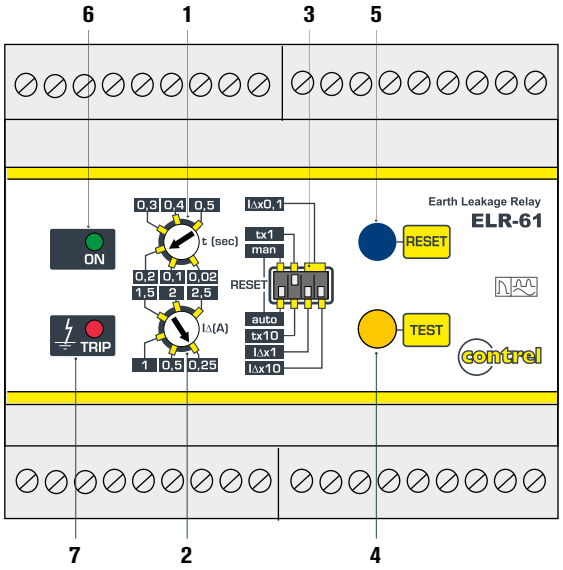


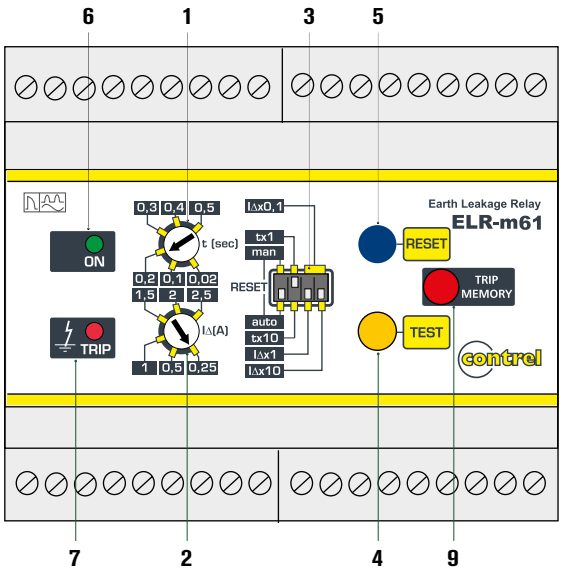
MECHANICAL DIMENSIONS

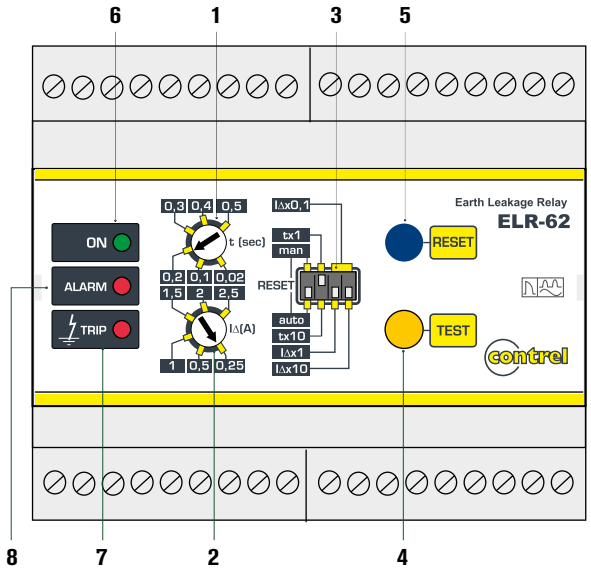


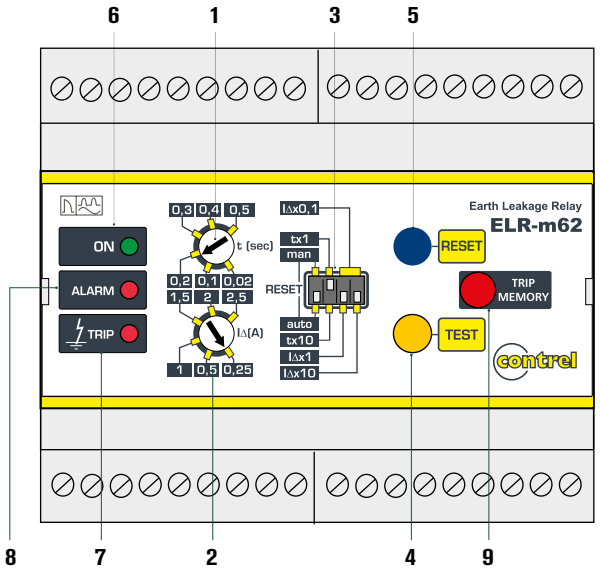
ELR-61 | ELR-m61 / ELR-62 | ELR-m62

RELÈ DIFFERENZIALI DI TERRA - ESECUZIONE MODULARE DIN









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
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	ALARM LED (**versions ELR-62, ELR-m62)**. lighting up depends on the dip switch programming; see the instructions of point 3a)
9	TRIP MEMORY (**versions ELR-m61, ELR-m62**). Mechanical trip relay indicator for exceeding the IΔn set. It stores the indication also in the lack of auxiliary voltage. The flag indicator resetting can only be made with the RESET button.